SAMSUNG

TFT-LCD MONITOR

Chassis	Model
MH15NS	1510MP
MH17NS	1710MP

SERVICE Manual

TFT-LCD MONITOR

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1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):
   WARNING: Do not use an isolation transformer during this test.
   Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

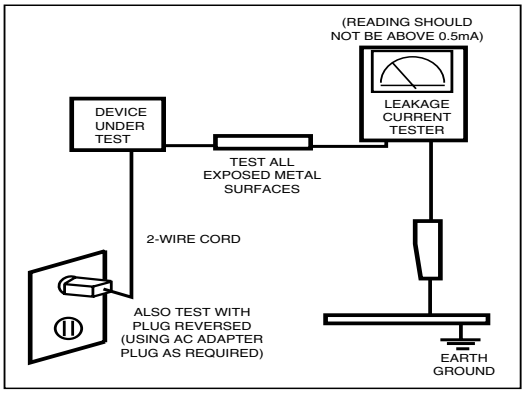


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by ⚠ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and / or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

1-2 Servicing Precautions

WARNING: **An electrolytic capacitor installed with the wrong polarity might explode.**

Caution: Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:
   (a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components are commonly called Electrostatically Sensitive Devices (ESD). Examples of typical ESD are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 Specifications

Item	Description	
	MH15NS	MH17NS
LCD Panel	TFT-LCD panel, RGB vertical stripe, normaly white, 15-Inch viewable, 0.297 mm pixel pitch	TFT-LCD panel, RGB vertical stripe, normaly white, 17-Inch viewable, 0.264 mm pixel pitch
Scanning Frequency	Horizontal : 30 kHz ~ 60 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz (Automatic)	30 kHz ~ 81 kHz (Automatic) 56 Hz ~ 75 Hz (Automatic)z
Display Colors	16.2 Million colors	
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 Pixels	1280 Pixels 1024 Pixels
Input Video Signal	Analog, 0.7 Vp-p ± 1% positive at 75 Ω, internally terminated	
Input Sync Signal	Type: Seperate H/V automatic synchronization without external switch of sync type Level: TTL level	
Maximum Pixel Clock rate	135 MHz	
Active Display Horizontal/Vertical	337.9 mm / 270.3 mm	
AC power voltage & Frequency	AC 90 ~ 264 Volts (± 10%), 60/ 50 Hz ± 3 Hz	
Power Consumption	40 W (max)	49 W (max)
Dimensions Set (W x H x D) Package (W x D x H)	 14.0 x 14.1 x 7.3 Inches (355.0 X 358.5 X 184.2 mm) 14.0 x 13.5 x 2.2 Inches (355.0 X 343.5 X 56.0 mm) 17.2 x 5.2 x 19.3 Inches (438 X 133 X 490 mm)	 15.3 x 15.8 x 8.1 Inches (389.0 X 402.5 X 206.0 mm) 15.3 x 15.2 x 2.5 Inches (389.0 X 386.0 X 63.0 mm) 19.0 x 5.8 x 21.3 Inches (482 X 148 X 542 mm)
Weight (Set/Package)	3.9 kg (8.6 lbs) / 5.05 kg (11.1 lbs)	5.35 kg (11.8 lbs) / 6.95 kg (15.3 lbs)
TV System	Tunning: Frequency Synthesize Color: NTSC Sound: Mono	
Antena Input	75Ω Coaxial Cable	
Sound Characteristic	– MAX Internal speaker Out : Right => 1.5 W Left => 1.5 W – BASS Control Range : -12 dB ~ + 12 dB – TREBLE Control Range : -12 dB ~ + 12 dB – Line Out : -7 dBm (Fixed) – Headphone Out : RF => 5 mW (400 m Vrms) A/V => 10 mW (580 Vrms), Max Input sound : -9 dB – Output Frequency : RF => 80 Hz ~ 15 KHz (at -3 dB) A/V => 80 Hz ~ 20 KHz (at -3 dB)	

- MH15NS/MH17NS complies with SWEDAC (MPR II) recommendations for reduced electromagnetic fields.
- Designs and specifications are subject to change without prior notice.

2-2 Pin Assignments

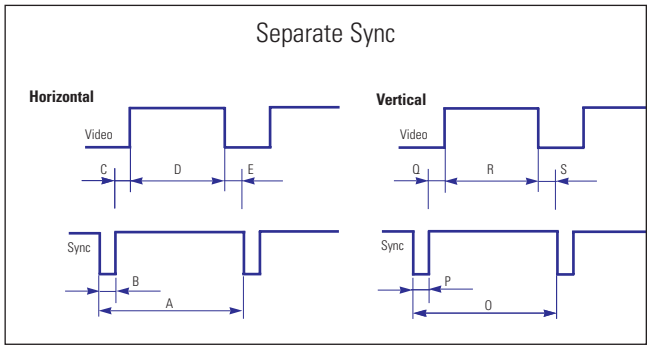
Sync Type / Pin No.	15-Pin Signal Cable Connector		
	Separate	**Composite**	**Sync-on-green**
1	Red	Red	Red
2	Green	Green	Green + H/V Sync
3	Blue	Blue	Blue
4	GND	GND	GND
5	GND (DDC Return)	GND (DDC Return)	GND (DDC Return)
6	GND-Red	GND-Red	GND-Red
7	GND-Green	GND-Green	GND-Green
8	GND-Blue	GND-Blue	GND-Blue
9	No Connection	No Connection	Not Used
10	GND-Sync/Self Test	GND-Sync/Self Test	GND-Sync/Self Test
11	GND	GND	GND
12	DDC Data	DDC Data	DDC Data
13	Horizontal sync	H/V-Sync	Not Used
14	Vertical sync	Not Used	Not Used
15	DDC Clock	DDC Clock	DDC Clock

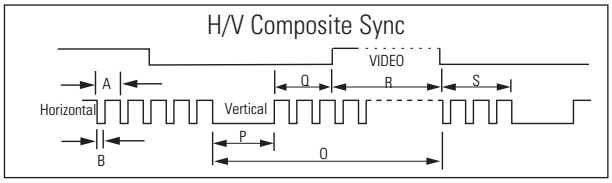
2-3 Timing Chart

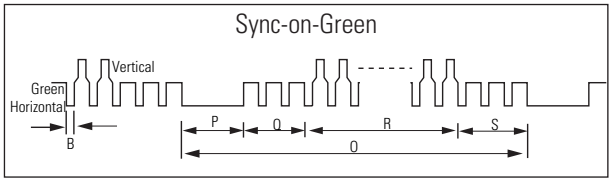
This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

Mode / Timing	IBM		VESA								
	VGA2/ 70 Hz 720 x 400	VGA3/ 60 Hz 640 x 480	640/75 Hz 640 x 480	640/85 Hz 640 x 480	800/75 Hz 800 x 600	800/85 Hz 800 x 600	1024/60Hz 1024 x 768	1024/75Hz 1024 x 768	1024/85Hz 1024x768	1280/76Hz 1280x1024 (Analog Only)	1280/75Hz 1280x1024 (Analog Only)
fH (kHz)	31.469	31.469	37.500	43.269	46.875	53.674	48.363	60.023	68.677	81.129	79.976
A µsec	31.777	31.778	26.667	23.111	21.333	18.631	20.677	16.660	14.561	16.640	12.504
B µsec	3.813	3.813	2.032	1.556	1.616	1.138	2.092	1.219	1.016	6.400	1.067
C µsec	1.589	1.589	3.810	2.222	3.232	2.702	2.462	2.235	2.201	2.880	1.837
D µsec	26.058	26.058	20.317	17.778	16.162	14.222	15.754	13.003	10.836		9.481
E µsec	0.318	0.318	0.508	1.556	0.323	0.569	0.369	0.203	0.508	3.200	0.119
fV (Hz)	70.087	59.940	75.000	85.008	75.000	85.061	60.004	75.029	84.997	76.106	75.025
O msec	14.268	16.683	13.333	11.764	13.333	11.756	16.666	13.328	11.765	10.660	13.329
P msec	0.064	0.064	0.080	0.671	0.064	0.056	0.124	0.050	0.044	0.080	0.038
Q msec	0.858	0.794	0.427	0.578	0.448	0.503	0.600	0.466	0.524	3.200	0.475
R msec	13.155	15.761	12.800	11.093	12.800	11.179	15.880	12.795	11.183		12.804
S msec	0.191	0.064	0.027	0.023	0.021	0.019	0.062	0.017	0.015	0.020	0.013
Clock Freq. (MHz)	28.322	25.175	31.500	49.500	49.500	56.250	75.000	78.750	94.500	135.000	135.000
Polarity H.Sync	Negative	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Negative	Positive
V.Sync	Positive	Negative	Negative	Negative	Positive	Positive	Negative	Positive	Positive	Negative	Positive
Remark	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Separate	Com.	Separate







A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

Memo

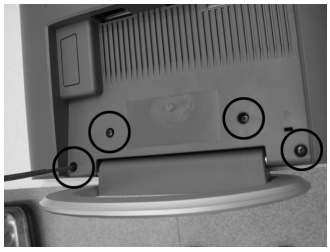
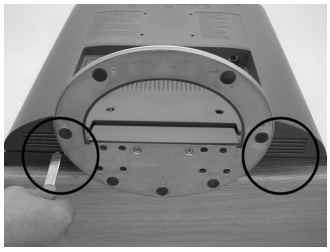
3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the MH15NS/MH17NS monitor.

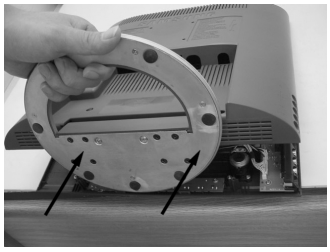
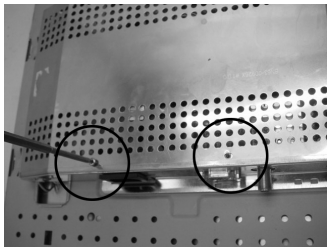
WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

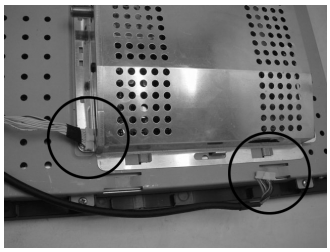
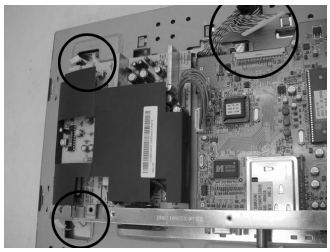
Cautions : 1. Disconnect the monitor from the power source before disassembly.
2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
3. R/Cover opening jig : BH81-00001A

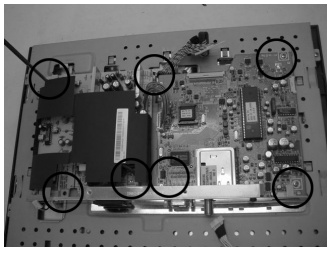
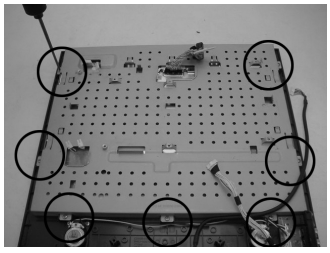
1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and insert the opening drive into the grooves at each side and press until it clicks.

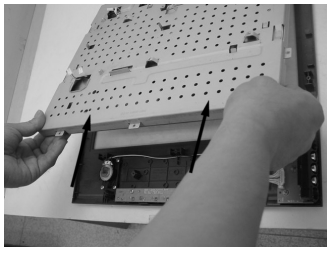
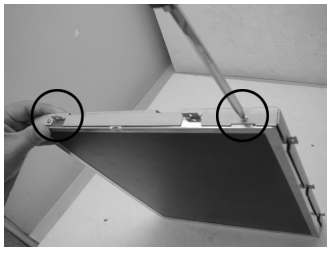
2. Remove back cover from the monitor and remove 2 screws from the main board.

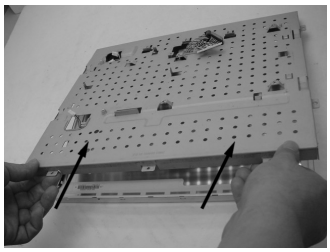
3. Disconnect speaker cable and function cable from the shield PCB and remove shield PCB. Disconnect inverter cables, LVDS cable from the MAIN board.

4. Remove 7 screws from the MAIN board and remove 7 screws from the cover front. (MH15NS : Remove 6 screws from the MAIN board and remove 6 screws from the cover front.)

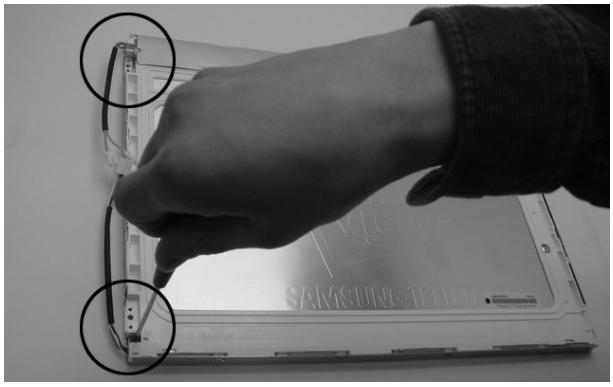
5. Remove the cover front and remove 4 screws from the panel.



6. Remove shield from the panel.

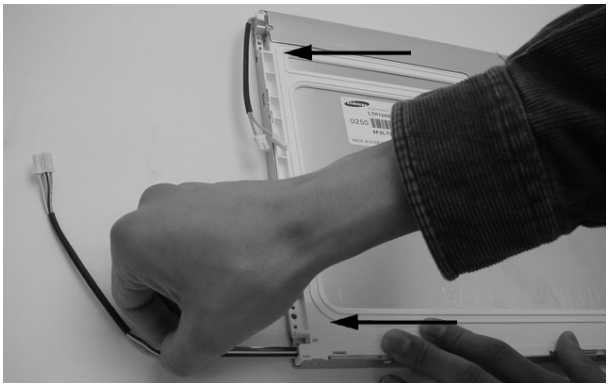
3-2 Replacement Order of Lamp Assemblies

1. After confirm there is nothing on the desk, turn the LCD module over and put it on a flat desk set to the ground.



2. Remove 2 screws for the lamp unit.

← Slide the lamp unit



3. Slide the lamp unit. Please take out the lamp units from the LCD module.

← Slide the lamp unit

4. Please fix the new lamp units on the LCD module : opposite process 2 and 3.

3-3 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

Memo

4 Alignments and Adjustments

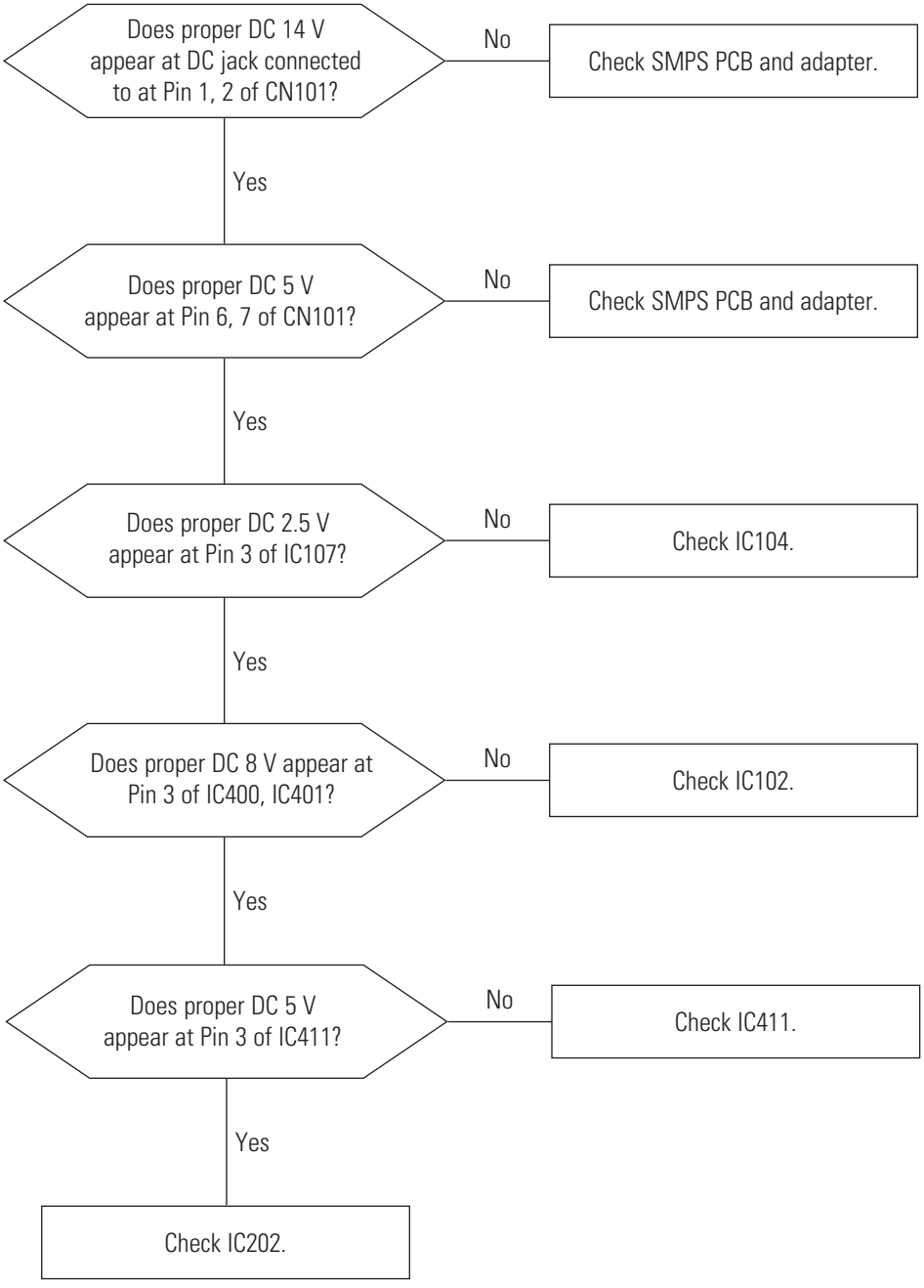
4-1 General Alignment Instuction

1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.
   Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV.
   When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an DC power source with voltage and frequency as specified on
   the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on.
   Make sure that the power cord is disconnected before replacing any parts.
7. To protect aganist shock hazard, use an isolation transform.

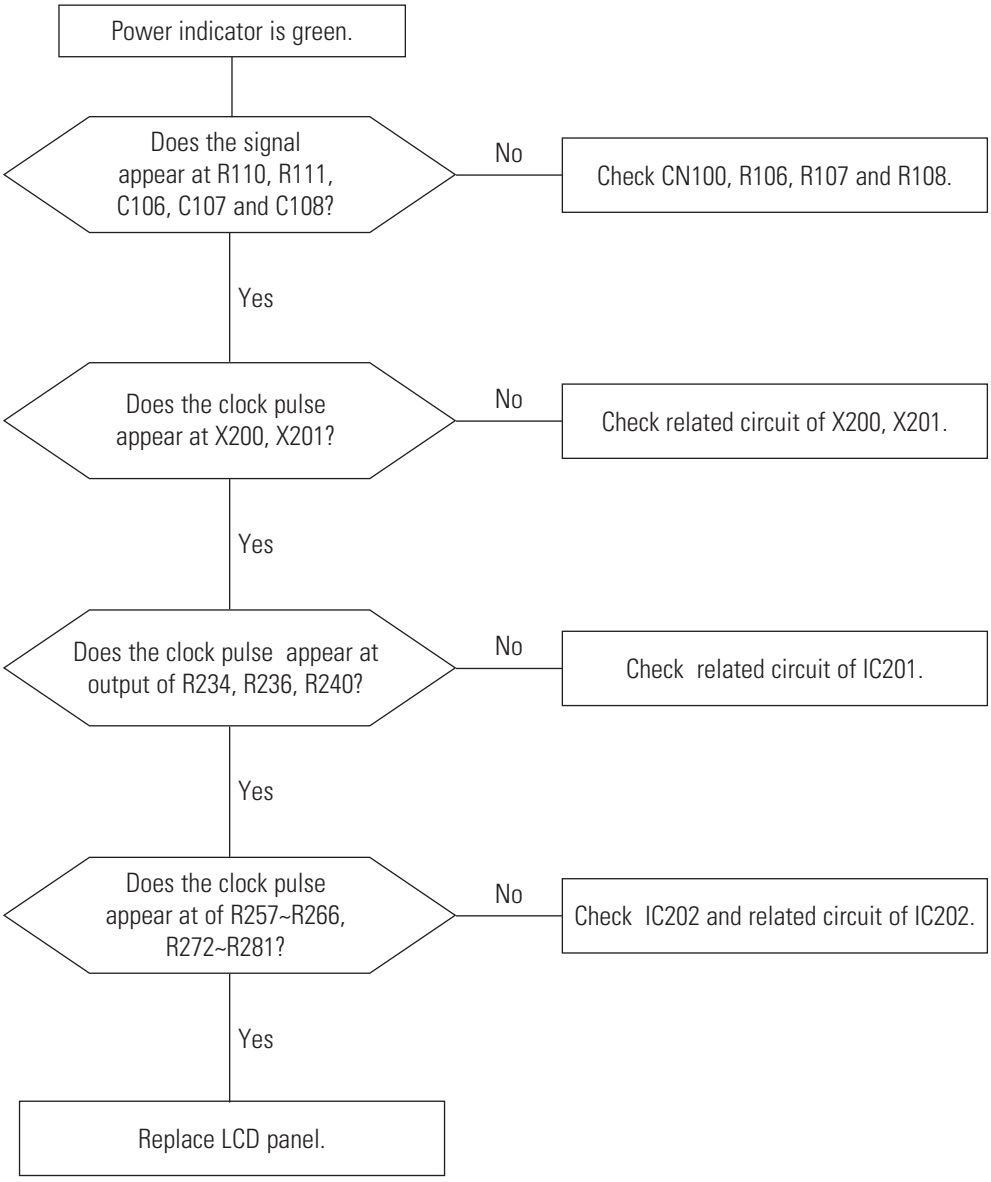
Memo

5 Troubleshooting

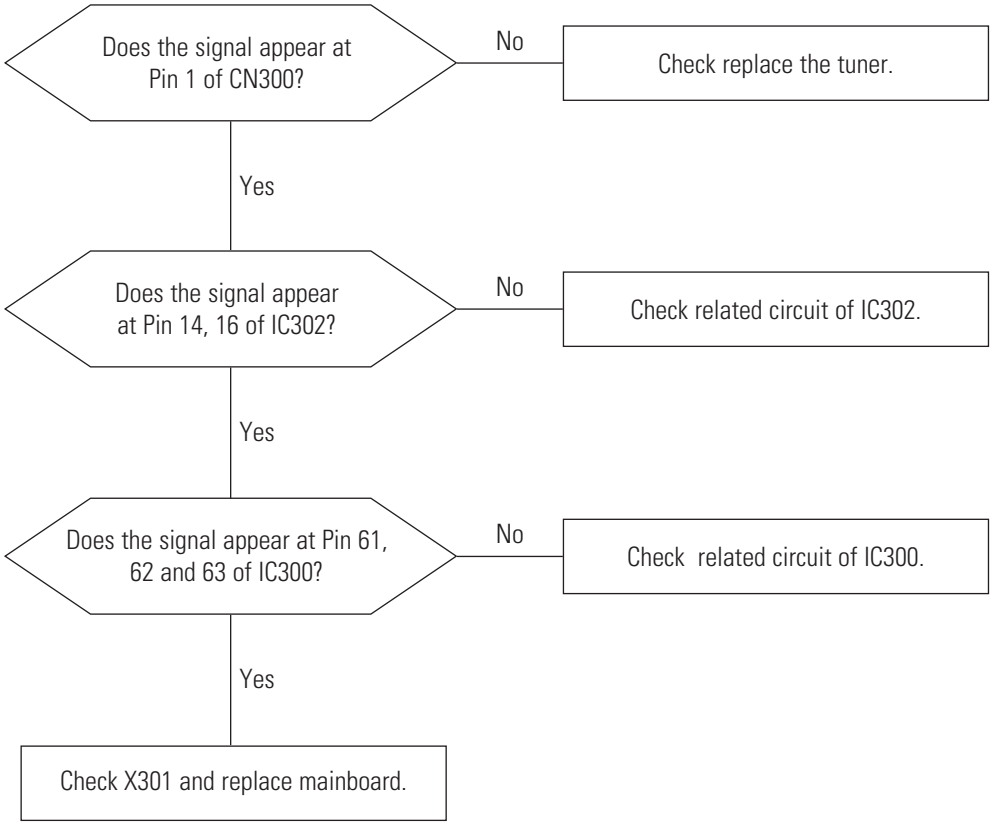
5-1 No Power


Does proper DC 14 V appear at DC jack connected to at Pin 1, 2 of CN101?
No
Check SMPS PCB and adapter.
Yes
Does proper DC 5 V appear at Pin 6, 7 of CN101?
No
Check SMPS PCB and adapter.
Yes
Does proper DC 2.5 V appear at Pin 3 of IC107?
No
Check IC104.
Yes
Does proper DC 8 V appear at Pin 3 of IC400, IC401?
No
Check IC102.
Yes
Does proper DC 5 V appear at Pin 3 of IC411?
No
Check IC411.
Yes
Check IC202.

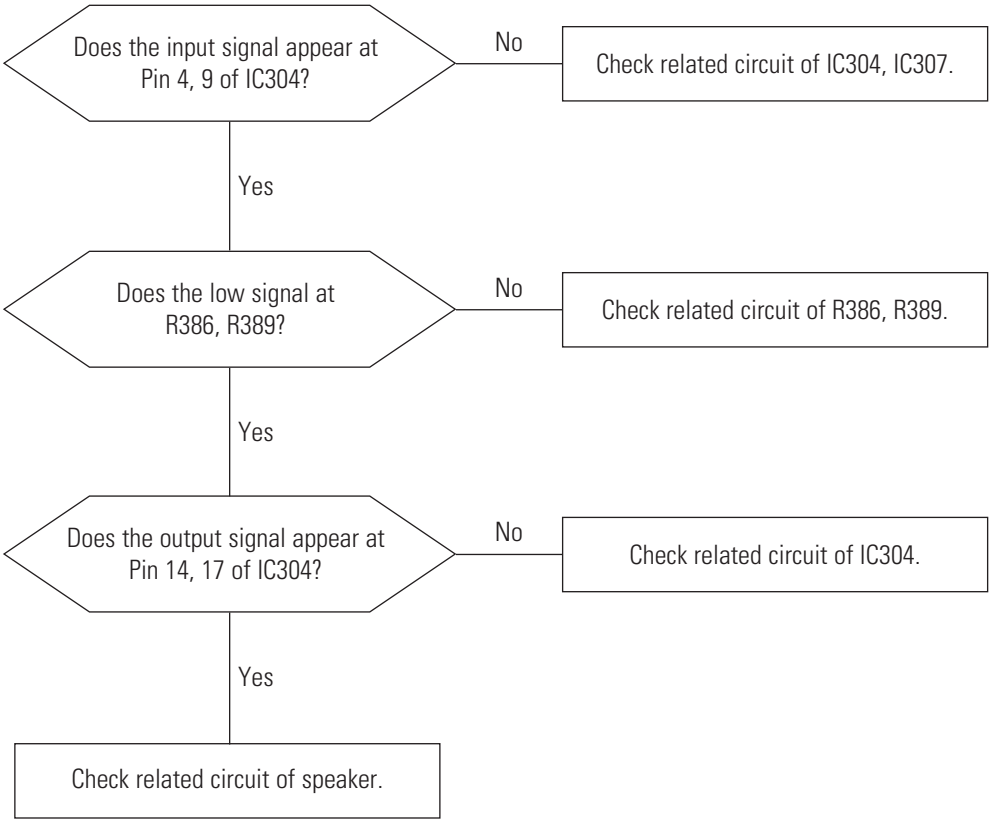
5-2 No Video (PC Signal)


Power indicator is green.
Does the signal appear at R110, R111, C106, C107 and C108?
No
Check CN100, R106, R107 and R108.
Yes
Does the clock pulse appear at X200, X201?
No
Check related circuit of X200, X201.
Yes
Does the clock pulse appear at output of R234, R236, R240?
No
Check related circuit of IC201.
Yes
Does the clock pulse appear at of R257~R266, R272~R281?
No
Check IC202 and related circuit of IC202.
Yes
Replace LCD panel.

5-3 No Picture (TV, Video 1, Video 2)


Does the signal appear at Pin 1 of CN300?
No
Check replace the tuner.
Yes
Does the signal appear at Pin 14, 16 of IC302?
No
Check related circuit of IC302.
Yes
Does the signal appear at Pin 61, 62 and 63 of IC300?
No
Check related circuit of IC300.
Yes
Check X301 and replace mainboard.

5-4 No Sound

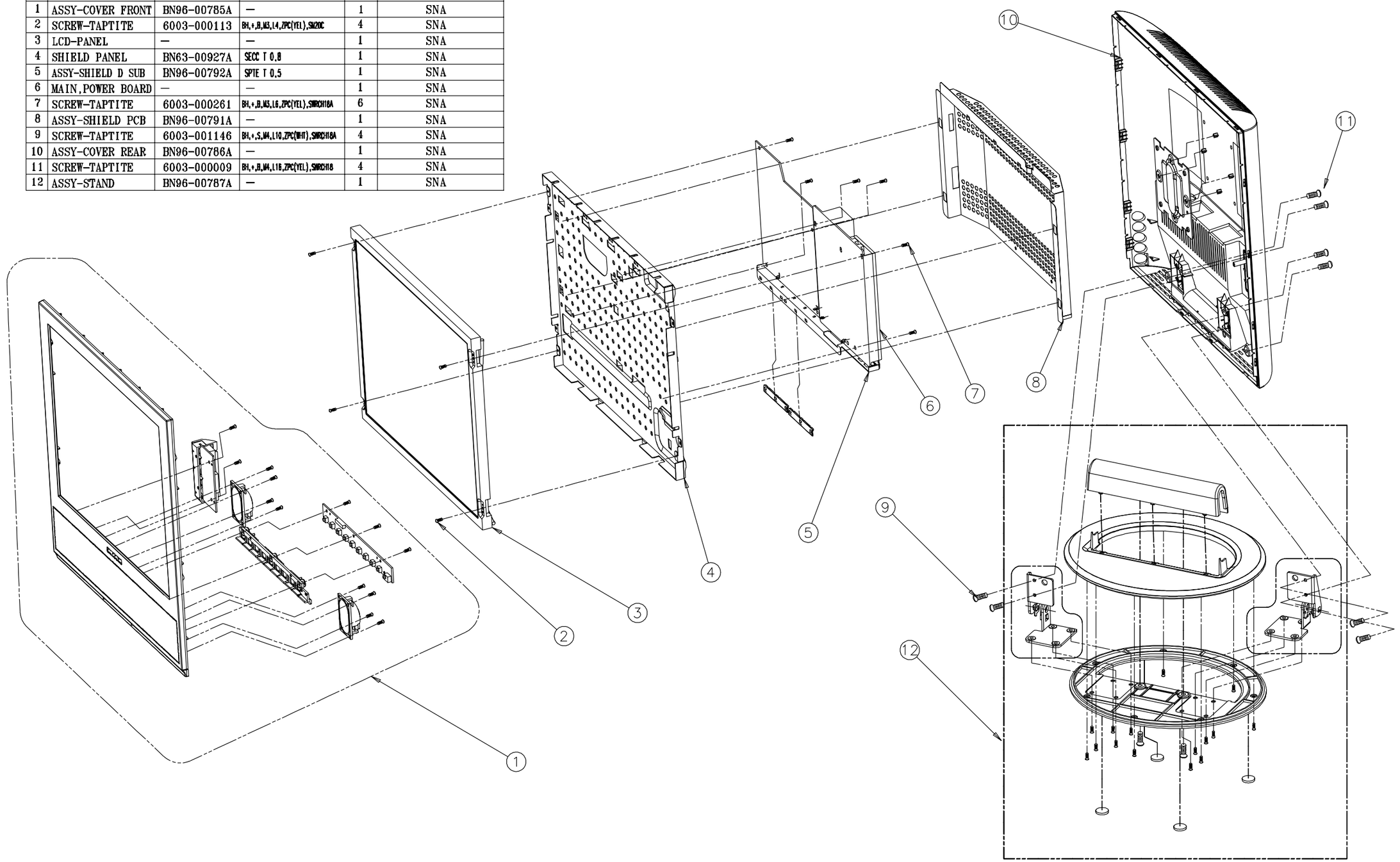

Does the input signal appear at Pin 4, 9 of IC304?
No
Check related circuit of IC304, IC307.
Yes
Does the low signal at R386, R389?
No
Check related circuit of R386, R389.
Yes
Does the output signal appear at Pin 14, 17 of IC304?
No
Check related circuit of IC304.
Yes
Check related circuit of speaker.

6 Exploded View and Parts List

❊ You can search for updated part codes through CMS web site.
URL : http://ecms. samsungelectronics. com/

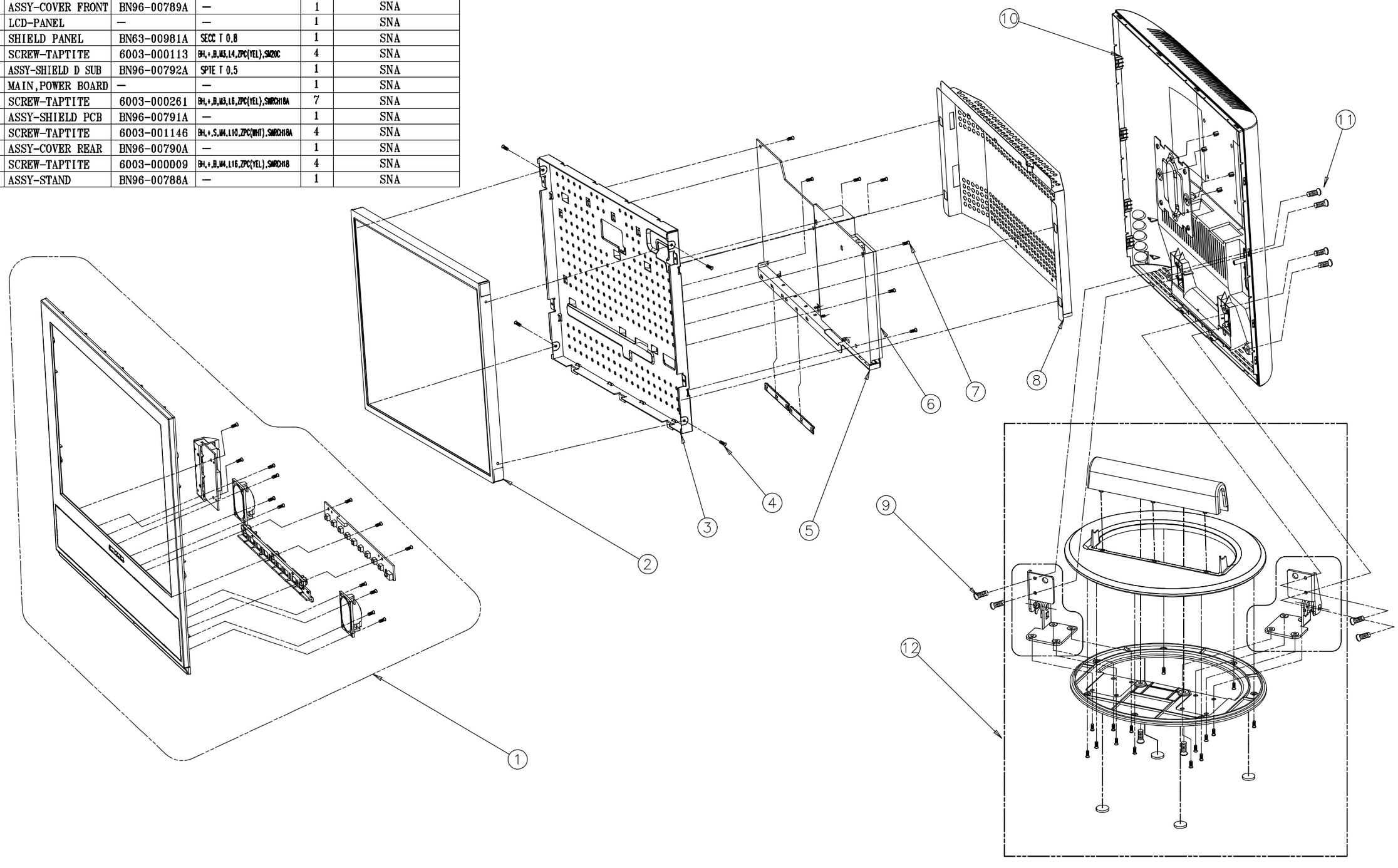
6-1 MH15NS

NO	PART NAME	CODE NO.	SPEC.	Q'TY	REMARK
1	ASSY-COVER FRONT	BN96-00785A	-	1	SNA
2	SCREW-TAPTITE	6003-000113	BH,+,B,M3,L4,ZPC(YEL),SWZ0C	4	SNA
3	LCD-PANEL	-	-	1	SNA
4	SHIELD PANEL	BN63-00927A	SECC T 0.8	1	SNA
5	ASSY-SHIELD D SUB	BN96-00792A	SPTE T 0.5	1	SNA
6	MAIN,POWER BOARD	-	-	1	SNA
7	SCREW-TAPTITE	6003-000261	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	6	SNA
8	ASSY-SHIELD PCB	BN96-00791A	-	1	SNA
9	SCREW-TAPTITE	6003-001146	BH,+,S,M4,L10,ZPC(WHT),SWRCH18A	4	SNA
10	ASSY-COVER REAR	BN96-00786A	-	1	SNA
11	SCREW-TAPTITE	6003-000009	BH,+,B,M4,L16,ZPC(YEL),SWRCH18	4	SNA
12	ASSY-STAND	BN96-00787A	-	1	SNA



6-2 MH17NS

NO	PART NAME	CODE NO.	SPEC.	Q'TY	REMARK
1	ASSY-COVER FRONT	BN96-00789A	-	1	SNA
2	LCD-PANEL	-	-	1	SNA
3	SHIELD PANEL	BN63-00981A	SECC T 0.8	1	SNA
4	SCREW-TAPTITE	6003-000113	BH,+,B,M5,L4,ZPC(YEL),SM20C	4	SNA
5	ASSY-SHIELD D SUB	BN96-00792A	SPTE T 0.5	1	SNA
6	MAIN,POWER BOARD	-	-	1	SNA
7	SCREW-TAPTITE	6003-000261	BH,+,B,M3,L6,ZPC(YEL),SMRCH18A	7	SNA
8	ASSY-SHIELD PCB	BN96-00791A	-	1	SNA
9	SCREW-TAPTITE	6003-001146	BH,+,S,M4,L10,ZPC(WHT),SMRCH18A	4	SNA
10	ASSY-COVER REAR	BN96-00790A	-	1	SNA
11	SCREW-TAPTITE	6003-000009	BH,+,B,M4,L16,ZPC(YEL),SMRCH18	4	SNA
12	ASSY-STAND	BN96-00788A	-	1	SNA



7 Electrical Parts List

❋ You can search for updated part codes through CMS web site.
URL : http://ecms. samsungelectronics. com/

7-1-1 MH15NS Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BN94-00502A	ASSY PCB MAIN-SN/CB	MH17NS,BASIC	SNA
C134	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
C139	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
CIS	AA40-00042A	TUNER-F/S	TECC1040PG32A(H),NTSC,181CH,45.75MHZ,75OHM,F-CON,5V,TR,4.75V-5.25V	
CIS1	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS2	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS3	0204-001095	THINNER	#4520,-,-,-	SNA
CIS4	0204-001677	FLUX	DF-201TVS,MIX,0.820,FLUX 13%,G	SNA
CN100	3701-001219	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	
CN101	3711-004712	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	
CN300	3711-005505	CONNECTOR-HEADER	NOWALL,11P,1R,2.54mm,ANGLE,SN,WHT	
CN301	3722-002081	JACK-EAR PHONE	5P/2C,-,SnPb,L-BLU,-	
FT302	2903-000129	FILTER-CERAMIC	BR,4.5MHz,-,-,-,TP,-	
FT303	2904-001241	FILTER-SAW AV	45.75MHz,SIP5K,ST,14.4dB,M/N,-	
IC300_SOC	3704-001061	SOCKET-IC	64P,DIP,SN,1.778mm	
IC302	1204-001854	IC-FILTER	TDA9183,DIP,16P,300MIL,PLASTIC,5.5V,175MW,-25TO+70C,TP,NTSC COMB FILTER	
IC304	1204-001833	IC-VOLUME CONTROL	TDA7496L,DIP,20P,-,PLASTIC,26V,6W,0TO+70C,ST,AMP&VOLUME CONTROL	
L307	2701-000127	INDUCTOR-AXIAL	15uH,10%,2534	
L310	2701-000157	INDUCTOR-AXIAL	220uH,5%,2534	
L311	2701-000157	INDUCTOR-AXIAL	220uH,5%,2534	
L317	2701-000157	INDUCTOR-AXIAL	220uH,5%,2534	
L318	2701-000210	INDUCTOR-AXIAL	680uH,10%,3070	
MP1.0_TUNER	BN41-00398A	PCB SUB-TUNER	MH15AS,FR1,1,1.6,147*166,manet pal,14,tuner	SNA
-	BN97-00341A	ASSY SMD-SN/CB	MH17NS	SNA
BD200	3301-001163	BEAD-SMD	-,80,-,300,TP,-,0.08	
BD201	3301-001163	BEAD-SMD	-,80,-,300,TP,-,0.08	
C100	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C101	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C102	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C106	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C107	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C108	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C109	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C110	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C111	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C112	2203-001607	C-CER,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C113	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C114	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C115	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C119	2203-000552	C-CER,CHIP	0.02NF,5%,50V,C0G,TP,1608	
C120	2203-000552	C-CER,CHIP	0.02NF,5%,50V,C0G,TP,1608	
C121	2203-000552	C-CER,CHIP	0.02NF,5%,50V,C0G,TP,1608	
C122	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C123	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C124	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C125	2203-001607	C-CER,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C126	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C128	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C129	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C130	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C131	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C132	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C133	2402-000209	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	
C135	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C136	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C137	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C138	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C140	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C141	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C170	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	

Loc. No.	Code No.	Description	Specification	Remarks
C171	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C172	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C173	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C192	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C197	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C200	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C201	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C202	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C203	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C204	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C205	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C206	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C207	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C208	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C209	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C210	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C211	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C212	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C213	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C214	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C215	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C216	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C217	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C218	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C219	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C220	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C221	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C222	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C223	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C224	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C225	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C226	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C227	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C228	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C229	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C230	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C231	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C232	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C233	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C234	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C235	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C236	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C237	2203-000998	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	
C238	2203-000998	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	
C239	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C278	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C279	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C300	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C301	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C302	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C303	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C304	2203-001402	C-CER,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C305	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C306	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C307	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C308	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C310	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C311	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C312	2203-000384	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	
C313	2203-000384	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	
C314	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C315	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C316	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C317	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C318	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C319	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C320	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C321	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C322	2402-000209	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	
C323	2203-000531	C-CER,CHIP	2.7nF,10%,50V,X7R,TP,1608,-	
C324	2203-001402	C-CER,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C325	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1608,-	
C326	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C327	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C328	2203-000041	C-CER,CHIP	0.01NF,0.25PF,50V,C0G,TP,1608	
C329	2203-000041	C-CER,CHIP	0.01NF,0.25PF,50V,C0G,TP,1608	
C330	2203-000041	C-CER,CHIP	0.01NF,0.25PF,50V,C0G,TP,1608	
C331	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C332	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C333	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C334	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C335	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C336	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C337	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C338	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1608,-	
C339	2203-001222	C-CER,CHIP	820pF,10%,50V,X7R,TP,1608,-	
C340	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	
C341	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C342	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C343	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C344	2203-001402	C-CER,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C345	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C346	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,TP,1608	
C347	2203-000405	C-CER,CHIP	0.18NF,5%,50V,C0G,TP,1608	
C348	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	
C349	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C350	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C351	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C352	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C353	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C355	2409-001044	C-ORGANIC	100UF,+-20%,16V,WT,TP,8X10.5,5	
C357	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C358	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C359	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C360	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C361	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C362	2402-001070	C-AL,SMD	470uF,20%,16V,GP,TP,10x10.2,-	
C363	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C364	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C365	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C366	2402-001070	C-AL,SMD	470uF,20%,16V,GP,TP,10x10.2,-	
C367	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C368	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C369	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C370	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	
C371	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C372	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C373	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C374	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C375	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C376	2402-001070	C-AL,SMD	470uF,20%,16V,GP,TP,10x10.2,-	
C377	2203-000783	C-CER,CHIP	0.33NF,5%,50V,C0G,TP,1608	
C378	2203-000783	C-CER,CHIP	0.33NF,5%,50V,C0G,TP,1608	
C379	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C380	2402-000209	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	
C381	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C382	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C383	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C384	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C386	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C394	2203-001656	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	
C395	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C396	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C397	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C398	2203-000280	C-CER,CHIP	0.01NF,0.5PF,50V,C0G,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C399	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C400	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C401	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C402	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C403	2203-000998	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	
C411	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C413	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C415	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C417	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C451	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C452	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C454	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C455	2203-001630	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	
C456	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CIS5	0202-001162	SOLDER-CREAM	RMA-20-21L,S63,-,SN63/PB36.6/AG0.4,FLUX9.5%	SNA
CN200	3711-005472	CONNECTOR-HEADER	BOX,20P,1R,1.25mm,SMD-A,Sn+Pb,IVR	
CN201	3711-005471	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,Sn+Pb,IVR	
CN302	3711-005471	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,Sn+Pb,IVR	
D100	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D101	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D102	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D103	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D104	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D105	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D106	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D107	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D108	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D109	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D200	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
D201	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
D300	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D301	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D302	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D303	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D304	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D306	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D307	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D308	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D309	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D310	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D311	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D312	0403-001382	DIODE-ZENER	UDZ33B,32.15-33.79V,200mW,SOD-323,TP	
D320	0402-000553	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	
D321	0402-000553	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	
FT100	3301-001145	BEAD-SMD	4.5x1.6x1.6mm,-,-	SNA
FT301	3301-001145	BEAD-SMD	4.5x1.6x1.6mm,-,-	SNA
IC100	0803-000117	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	
IC102	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC103	1203-002853	IC-VOLTAGE REGULATOR	G960T45R,TO-252,3P,6.35X5.97MM,PLASTIC,3.234/3.336V,-,-40TO+125C,1A,-,TP	
IC104	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC107	1203-002450	IC-VOLTAGE REGULATOR	MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-,-40TO+125C,300MA,-,TP	
IC110	1203-002411	IC-POSI.FIXED REG.	IRU1030-33CM,TO-263,3P,-,PLASTIC,3.267/3.333V,-,0TO+150C,-,-,ST	
IC200	1103-001023	IC-EEPROM	524C80D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP	
IC202	1003-001603	IC-LCD CONTROLLER	MST9041A,QFP,128P,20X14MM,-,-,TR,PLASTIC,3.3V,-20TO+85C,-,-,-	
IC301	1001-000191	IC-VIDEO SWITCH	NJM2248M,CMOS,SOP,8P,-,SINGLE,	
IC303	0801-002404	IC-CMOS LOGIC	74VHC4066,ANALOG SWITCH,SOP,14	
IC307	0801-002404	IC-CMOS LOGIC	74VHC4066,ANALOG SWITCH,SOP,14	
IC400	1203-001816	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	
IC401	1203-001816	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	
IC410	1203-001488	IC-POSI.FIXED REG.	7805,TO-252,3P,-,PLASTIC,4.8/5	
IC411	1203-001816	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	
L201	2703-001334	INDUCTOR-SMD	1.5uH,10%,2012	
L301	2703-000125	INDUCTOR-SMD	10uH,10%,2012	
L302	2703-000125	INDUCTOR-SMD	10uH,10%,2012	
L303	2703-000398	INDUCTOR-SMD	10uH,10%,3225	
L306	2703-000398	INDUCTOR-SMD	10uH,10%,3225	
L312	2703-000125	INDUCTOR-SMD	10uH,10%,2012	

Loc. No.	Code No.	Description	Specification	Remarks
MP1.1	BN41-00355B	PCB MAIN	MH15NS,FR4,2,1.6,150*166,manet,main	SNA
Q101	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q102	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q103	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q104	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q105	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q201	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q210	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q300	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q301	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q302	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q303	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q304	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q305	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q306	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q307	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q308	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
R100	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R101	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R102	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R103	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R104	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R105	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R106	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R107	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R108	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R109	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R110	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R111	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R112	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R113	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R114	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R118	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R119	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R120	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R121	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R122	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R123	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R124	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R125	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R126	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R127	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R128	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R129	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R130	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R131	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R135	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R136	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R137	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R138	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R142	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R143	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R144	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R145	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R146	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R147	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R148	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R149	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R150	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R151	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R152	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R153	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R154	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R155	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R156	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R176	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R200	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R202	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R203	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R204	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R205	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R206	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R207	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R208	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R209	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R210	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R211	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R212	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R213	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R214	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R215	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R216	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R217	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R218	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R219	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R220	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R221	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R222	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R223	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R224	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R225	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R226	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R227	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R228	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	
R229	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	
R230	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R231	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R232	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R233	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R234	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R235	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R236	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R237	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R238	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R239	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R240	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R241	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R242	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R243	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R244	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R245	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R246	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R247	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R248	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R249	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R250	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R251	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R252	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R256	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	
R267	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R268	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R271	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R300	2007-000091	R-CHIP	12Kohm,5%,1/10W,TP,1608	
R301	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R302	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R303	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R304	2007-000132	R-CHIP	180Kohm,5%,1/10W,TP,1608	
R305	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R306	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R307	2007-000100	R-CHIP	68Kohm,5%,1/10W,TP,1608	
R308	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R309	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R310	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R311	2007-000643	R-CHIP	270ohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R312	2007-000643	R-CHIP	270ohm,5%,1/10W,TP,1608	
R314	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R315	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R316	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R317	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R318	2007-000116	R-CHIP	120ohm,5%,1/10W,TP,1608	
R319	2007-000726	R-CHIP	300ohm,1%,1/10W,TP,1608	
R320	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R321	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R322	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R323	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R325	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	
R326	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R327	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R328	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R329	2007-000088	R-CHIP	7.5Kohm,5%,1/10W,TP,1608	
R331	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R332	2007-000726	R-CHIP	300ohm,1%,1/10W,TP,1608	
R333	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R334	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R335	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R336	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R337	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R338	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R339	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	
R340	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R341	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R342	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R343	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R345	2007-000726	R-CHIP	300ohm,1%,1/10W,TP,1608	
R346	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608	
R347	2007-000458	R-CHIP	18Kohm,5%,1/10W,TP,1608	
R348	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	
R349	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R350	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R351	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R352	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R353	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R354	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R355	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R356	2007-000120	R-CHIP	680ohm,5%,1/10W,TP,1608	
R357	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R358	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R359	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R360	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R361	2007-000132	R-CHIP	180Kohm,5%,1/10W,TP,1608	
R362	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R363	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R364	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	
R365	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R366	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R367	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R368	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R369	2007-000119	R-CHIP	560ohm,5%,1/10W,TP,1608	
R370	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R371	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R372	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R373	2007-000091	R-CHIP	12Kohm,5%,1/10W,TP,1608	
R374	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R375	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R376	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R377	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R378	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R379	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R380	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R381	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R382	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R383	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R384	2007-000882	R-CHIP	4.7ohm,5%,1/10W,TP,1608	
R385	2007-000882	R-CHIP	4.7ohm,5%,1/10W,TP,1608	
R386	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R387	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R388	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R389	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R390	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R391	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R392	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R393	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R394	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R396	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R397	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R399	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R400	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R401	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R402	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R403	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R404	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R405	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R409	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R420	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	
R421	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	
R422	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	
R450	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
X200	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	
X201	2801-003667	CRYSTAL-SMD	14.3182MHZ,50PPM,28-AAN,16,50OHM,TP	
X300	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	
MICOM	BN97-00335L	ASSY MICOM	MH15NS,BASIC	SNA
IC201	0903-001326	IC-MICROCONTROLLER	NT68F632L,8BIT,PLCC,44P,16.59X16.59MM,24MHZ,ST,CMOS,PLASTIC,3.3V,-,0TO+70C,128K	
CIS	BN82-00104S	A/S MICOM	MH15NS	SNA
-	BN94-00443L	ASSY PCB POWER	GY17CS	
C601	2301-001244	C-FILM,LEAD-PEF	150nF,20%,275Vac,TP,18x8.5x15,	
C602	2301-001244	C-FILM,LEAD-PEF	150nF,20%,275Vac,TP,18x8.5x15,	
C605	2401-003921	C-AL	100UF,20%,400V,WT,BK,18X31.5MM,7.5	
C620	2401-003624	C-AL	470uF,20%,25V,HR,BK,10x16mm,5	
C621	2201-002157	C-CERAMIC,DISC	0.005nF,0.5pF,3000V,SL,TP,7x5.5mm,7.5	
C622	2201-002157	C-CERAMIC,DISC	0.005nF,0.5pF,3000V,SL,TP,7x5.5mm,7.5	
C623	2201-002157	C-CERAMIC,DISC	0.005nF,0.5pF,3000V,SL,TP,7x5.5mm,7.5	
C624	2201-002157	C-CERAMIC,DISC	0.005nF,0.5pF,3000V,SL,TP,7x5.5mm,7.5	
CIS01	0202-000008	SOLDER-WIRE	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS02	0204-001527	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG	SNA
CIS03	0202-000187	SOLDER-WIRE FLUX	-,RS60S,D1.2,63Sn/37Pb	SNA
CIS04	0204-000442	SOLVENT	1M-1000,C3H70H,96,-	SNA
CIS05	0201-001438	ADHESIVE-HM	HM-555,WHT,4,000 CPS,-	SNA
CN601	BN39-00425A	LEAD CONNECTOR	GY17CS,UL1007#18,UL/CSA,1P,60mm,#18,ST-01T-BCK9,YPT-018S,BK	
CN603	BN39-00415A	LEAD CONNECTOR	GOYA2025,UL1007#24,UL/CSA,9P,90MM,#24,SMH200-09,YBNH200-09,BK	
CN604	3711-005411	CONNECTOR-HEADER	NOWALL,2P,1R,8.5MM,ANGLE,SN,WHT	
CN605	3711-005411	CONNECTOR-HEADER	NOWALL,2P,1R,8.5MM,ANGLE,SN,WHT	
CN606	3711-005411	CONNECTOR-HEADER	NOWALL,2P,1R,8.5MM,ANGLE,SN,WHT	
CN607	3711-005411	CONNECTOR-HEADER	NOWALL,2P,1R,8.5MM,ANGLE,SN,WHT	
D601	0402-001407	DIODE-BRIDGE	G2SB60,600V,1.5A,SIP-4,BK	
IC601	1203-002958	IC-PWM CONTROLLER	NCP1200P60,DIP,8P,10.16X6.6MM,PLASTIC,-,550MW,-25TO+125C,110MA,-,ST	
IC602	0604-001018	PHOTO-COUPLER	DAR-TR,63-125%,200mW,DIP-4,ST	
IS601	BN62-00011A	INSULATION-SHEET	GY17CS,PET,T0.25 * 2,152,337,IVORY,V2	SNA
L601	BN29-00003A	FILTER LINE NOISE	LCDMO,UU1116,1.6ohm,36.0mH,20x18x26mm,BK,0.2mH,100Ω(500Vdc),-10° ... ~ 70° ...	
L602	BN29-00004A	FILTER LINE NOISE	GY17CS,TO-0803,0.03ohm,30mH,9.5*8.0*18.0MM,5A,250V,BK,2uH,100Mohm(500V)	
L603	BN27-00018A	COIL CHOKE	AR-0520,GOYA17CS,5uH,+-10,100MOHM,L-81 AR 5*20,15.5t,10x29mm,7.0mm,0.9 PI,BK	
R605	2003-000855	R-METAL OXIDE(S)	47Kohm,5%,3W,AA,TP,6x16mm	
T601	BN26-00012A	TRANS POWER	ER3016,LCDTM,680uH,8Pin,500V,14V/5V,2A/2A,40W,60kHz,FERRITE,ER-3016,0.50 ohm,11.	
T602	BN26-00013A	TRANS-INVETER	TMP90140CT,GY17CS,0.7H,8Pin,12V,1Kohm,50kHz,FERRITE,EFD16.2TP4,175mH	
T603	BN26-00013A	TRANS-INVETER	TMP90140CT,GY17CS,0.7H,8Pin,12V,1Kohm,50kHz,FERRITE,EFD16.2TP4,175mH	
TH601	1404-001020	THERMISTOR-NTC	8ohm,15%,-,17mW/C,BK	

Loc. No.	Code No.	Description	Specification	Remarks
-	BN97-00207L	ASSY AUTO-POWER	GY17CS	SNA
BD601	3301-000011	BEAD-AXIAL	3.5x1.0x5.7mm,1500,2375G	
BD602	3301-000011	BEAD-AXIAL	3.5x1.0x5.7mm,1500,2375G	
BD603	3301-000011	BEAD-AXIAL	3.5x1.0x5.7mm,1500,2375G	
C603	2201-002026	C-CERAMIC,DISC	1NF,20%,400V,Y5P,TP,11X6MM,7.5	
C604	2201-002026	C-CERAMIC,DISC	1NF,20%,400V,Y5P,TP,11X6MM,7.5	
C606	2301-001661	C-FILM,LEAD-PEF		
C607	2401-000970	C-AL	22uF,20%,50V,WT,TP,5x11,5	
C608	2202-000654	C-CERAMIC,MLC-RADIAL	100nF,10%,50V,X7R,TP,5.1x6.6x3.2mm,5	
C609	2201-000146	C-CERAMIC,DISC	0.1NF,5%,50V,SL,TP,5X3.5MM,5	
C610	2301-000016	C-FILM,LEAD-PEF	22nF,5%,100V,TP,7.2x4.5x9.0mm,	
C611	2201-000983	C-CERAMIC,DISC	1NF,10%,2KV,Y5P,TP,9X5MM,7.5	
C612	2401-003139	C-AL	1000uF,20%,25V,WT,TP,10*20,5mm	
C613	2401-003139	C-AL	1000uF,20%,25V,WT,TP,10*20,5mm	
C614	2201-000551	C-CERAMIC,DISC	0.47NF,10%,1KV,Y5P,TP,6.3X5MM,5	
C615	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C616	2401-000142	C-AL	1000uF,20%,16V,WT,TP,10x20,5	
C618	2301-000019	C-FILM,LEAD-PEF	47nF,10%,100V,TP,8.9x5.1x13.5m	
C619	2201-000023	C-CERAMIC,DISC	2.2NF,20%,250V,Y5U,TP,11X7MM,5	
C625	2202-002009	C-CERAMIC,MLC-AXIAL	100NF,+80-20%,50V,Y5V,TP,2.3X3.0MM,-	
D602	0402-000012	DIODE-RECTIFIER	UF4007,1KV,1A,DO-41,TP	
D603	0402-000546	DIODE-RECTIFIER	TVR10G,400V,1.0A,DO-41,TP	
D604	0401-000005	DIODE-SWITCHING	1N4148,100V,200mA,DO-35,TP	
EY601	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY602	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY603	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY604	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY605	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY606	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY607	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY608	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY609	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
EY610	6042-000002	EYELET	ID1.5,OD2,L2.8,NI+SN,BSP3-1/2H	SNA
FH601	3601-001226	FUSE-RADIAL LEAD	250V,3.15A,TIME-LAG,PLASTIC,8.5x8mm	
FH602	3601-001226	FUSE-RADIAL LEAD	250V,3.15A,TIME-LAG,PLASTIC,8.5x8mm	
IC603	1203-000002	IC-POSI.ADJUST REG.	431,TO-92,3P,-,PLASTIC,2.44/2.	
J601	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J602	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J603	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J604	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J605	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J606	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J607	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J608	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J609	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J610	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J611	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J612	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J613	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J614	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J615	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J616	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
J617	BH39-40305U	CBF HARNESS	52MM,AWG22(0.6PI),-,-,AWG22(0.	
MP1.0	BN41-00343A	PCB SUB	IP Bd,FR1,1,R1.0,1.6mm,138*156mm,GY17CS,2	SNA
R601	2001-001129	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R602	2001-001129	R-CARBON(S)	330KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R603	2003-000654	R-METAL OXIDE(S)	33Kohm,5%,2W,AA,TP,4.3x12mm	
R604	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R606	2001-000281	R-CARBON	100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R607	2001-000221	R-CARBON	1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R608	2001-000890	R-CARBON	6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R609	2005-000421	R-WIRE WOUND	0.5ohm,5%,1W,AA,TP,4x12mm	
R610	2003-000470	R-METAL OXIDE(S)	10ohm,5%,1W,AF,TP,3.3x9mm	
R611	2001-001117	R-CARBON(S)	2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
R612	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R614	2001-000723	R-CARBON	4.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R615	2001-000472	R-CARBON	2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Loc. No.	Code No.	Description	Specification	Remarks
R616	2001-000633	R-CARBON	30KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R617	2004-004090	R-METAL	6.49Kohm,1%,1/4W,AA,TP,2.5x6.5	
R618	2004-000001	R-METAL	6.2Kohm,1%,1/4W,AA,TP,2.4x6.4m	
R619	2003-000470	R-METAL OXIDE(S)	10ohm,5%,1W,AF,TP,3.3x9mm	
SCR601	1401-000103	THYRISTOR-SCR	800mA,400V,400V,10A,TO-92	
ZD601	0403-001328	DIODE-ZENER	MTZJ22A,20.15-21.20V,500mW,DO-34,TP	
ZD602	0403-001327	DIODE-ZENER	MTZJ18A,16.22-17.06V,500mW,DO-34,TP	
ZD603	0403-000508	DIODE-ZENER	MTZJ5.6B,5.6V,5.45-5.73V,500mW	
HS601	BP96-00374A	ASSY HEAT SINK P	BP62-00045A,SCREW+NUT,ST6NK60ZFP,OIL SILICON	SNA
CIS	0205-001027	OIL-SILICON	G746,-,-	SNA
CIS	0505-001768	FET-SILICON	STP6NK60ZFP(031Y,N,600V,6A,1.20HM,32W,TO-220	
CIS	6003-000335	SCREW-TAPTITE	RH,+,2S,M3,L8,ZPC(YEL),SWRCH18	SNA
CIS	BP62-00045A	HEAT SINK-PS	GY17CS,A1050S,T2.0,6,68	SNA
HS602	BP96-00375A	ASSY HEAT SINK P	BP62-00046A,SCREW+NUT,MBR2045CT,MBRF16100CT,RUBBER SILICON	SNA
CIS	0402-000240	DIODE-RECTIFIER	MBR2045,45V,20A,TO-220,ST	
CIS	0404-001125	DIODE-SCHOTTKY	MBR16100CT,100V,8000MA,TO-220AB,ST	
CIS	6003-000335	SCREW-TAPTITE	RH,+,2S,M3,L8,ZPC(YEL),SWRCH18	SNA
CIS	BN61-00628A	SUPPORT	NB21BS,NYLON66,T2.25,@5.25,NTR,DAWG - 5N	SNA
CIS	BN73-00047B	SILICON/RUBBER	NB21BS,TC1370,17*19*T0.4,@3.65	SNA
CIS	BP62-00046A	HEAT SINK-PS	GY17CS,A1050S,T2.0,37,66	SNA
-	BN94-00499A	ASSY PCB POWER-SUB	GY17CS	
CIS01	0202-000008	SOLDER-WIRE	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS03	0202-000187	SOLDER-WIRE FLUX	-,RS60S,D1.2,63Sn/37Pb	SNA
CIS04	0204-000442	SOLVENT	1M-1000,C3H70H,96,-	SNA
CIS02	0204-001527	FLUX	DF-201TVS,MIX,0.820,FLUX 13%, 14KG	SNA
J3	3711-001465	CONNECTOR-HEADER	NOWALL,3P,1R,2.54mm,STRAIGHT,A	
J2	3711-001561	CONNECTOR-HEADER	NOWALL,5P,1R,2.54mm,STRAIGHT,A	
J1	3711-001665	CONNECTOR-HEADER	NOWALL,9P,1R,2.54MM,STRAIGHT,AU15U,BLK	
-	BN97-00337A	ASSY SMD-POWER-SUB	GY17CS	SNA
C1	2203-005261	C-CER,CHIP	1000nF,10%,25V,X7R,TP,3216	
C10	2203-001397	C-CER,CHIP	2.2nF,5%,50V,NP0,TP,1608	
C11	2203-000783	C-CER,CHIP	0.33NF,5%,50V,C0G,TP,1608	
C12	2203-000659	C-CER,CHIP	0.27NF,5%,50V,C0G,TP,1608	
C13	2203-001103	C-CER,CHIP	6.8nF,10%,50V,X7R,TP,1608,-	
C14	2203-001103	C-CER,CHIP	6.8nF,10%,50V,X7R,TP,1608,-	
C15	2203-001103	C-CER,CHIP	6.8nF,10%,50V,X7R,TP,1608,-	
C16	2203-001103	C-CER,CHIP	6.8nF,10%,50V,X7R,TP,1608,-	
C17	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C18	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C19	2203-001598	C-CER,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012	SNA
C2	2203-005261	C-CER,CHIP	1000nF,10%,25V,X7R,TP,3216	
C20	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C21	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C22	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C23	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C24	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C25	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C26	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C3	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C4	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C5	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C6	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C7	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C8	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
C9	2203-001103	C-CER,CHIP	6.8nF,10%,50V,X7R,TP,1608,-	
CB1	2203-001598	C-CER,CHIP	2200nF,+80-20%,16V,Y5V,TP,2012	SNA
CB2	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
CB3	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
CB4	2203-005249	C-CER,CHIP	100nF,10%,50V,X7R,TP,1608,-	
CIS05	0202-001167	SOLDER-CREAM	RX3603-2330HO,S45A,PASTE,SN63/PB34/BI3,FLUX 10.5%	
CS1	2203-006333	C-CER,CHIP	10000nF,20%,16V,X5R,TP,3216	
CS2	2203-006333	C-CER,CHIP	10000nF,20%,16V,X5R,TP,3216	
D1	0407-000113	DIODE-ARRAY	BAW56LT1,70V,200mA,CK2-3,SOT-23,TP	

Loc. No.	Code No.	Description	Specification	Remarks
D2	0407-000113	DIODE-ARRAY	BAW56LT1,70V,200mA,CK2-3,SOT-23,TP	
D3	0401-000132	DIODE-SWITCHING	BAV99,70V,715mA,SOT-23,TP	
D4	0401-000132	DIODE-SWITCHING	BAV99,70V,715mA,SOT-23,TP	
D5	0401-000132	DIODE-SWITCHING	BAV99,70V,715mA,SOT-23,TP	
D6	0401-000132	DIODE-SWITCHING	BAV99,70V,715mA,SOT-23,TP	
D7	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D8	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
MP1.0	BN41-00347A	PCB SUB-IP	Power_sub,FR4,2,R1.0,0.8mm,45*27,GY17CS,6	SNA
Q1	0505-001803	FET-SILICON	FDS4935,P,-30V,-7A,0.019ohm,1.6W,SO-8	
Q2	0505-001791	FET-SILICON	NTMD6N03R2,N,30V,6A,0.024ohm,2W,SO-8	
R1	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R10	2007-000103	R-CHIP	120Kohm,5%,1/10W,TP,1608	
R11	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R12	2007-000616	R-CHIP	24Kohm,5%,1/10W,TP,1608	
R13	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R14	2007-000999	R-CHIP	510ohm,1%,1/10W,TP,1608	
R16	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R17	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R18	2007-000058	R-CHIP	49.9Kohm,1%,1/10W,TP,1608	
R19	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R2	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R20	2007-000134	R-CHIP	33Kohm,5%,1/10W,TP,1608	
R21	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R22	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R23	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R24	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	
R25	2007-000058	R-CHIP	49.9Kohm,1%,1/10W,TP,1608	
R26	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R27	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R28	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	
R29	2007-000458	R-CHIP	18Kohm,5%,1/10W,TP,1608	
R3	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	
R30	2007-000058	R-CHIP	49.9Kohm,1%,1/10W,TP,1608	
R4	2007-000105	R-CHIP	200Kohm,5%,1/10W,TP,1608	
R5	2007-000058	R-CHIP	49.9Kohm,1%,1/10W,TP,1608	
R6	2007-000805	R-CHIP	36Kohm,5%,1/10W,TP,1608	
R7	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R8	2007-000058	R-CHIP	49.9Kohm,1%,1/10W,TP,1608	
R9	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
RD1	2007-000071	R-CHIP	22ohm,5%,1/10W,TP,1608	
RR1	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	
RR2	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	
RR3	2007-000999	R-CHIP	510ohm,1%,1/10W,TP,1608	
RS1	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	
RS2	2007-000060	R-CHIP	100Kohm,1%,1/10W,TP,1608	
RS3	2007-000999	R-CHIP	510ohm,1%,1/10W,TP,1608	
RS4	2007-000999	R-CHIP	510ohm,1%,1/10W,TP,1608	
RS5	2007-000999	R-CHIP	510ohm,1%,1/10W,TP,1608	
RS6	2007-000999	R-CHIP	510ohm,1%,1/10W,TP,1608	
TR1	0506-001069	TR-ARRAY	MBT3904DW1T1,NPN,DUAL,150mW,SOT-363,TP,100-300	
TR2	0506-001069	TR-ARRAY	MBT3904DW1T1,NPN,DUAL,150mW,SOT-363,TP,100-300	
TR3	0506-001071	TR-ARRAY	MBT3946DW1T1,NPN/PNP,2,150mW,SOT-363,TP,100-300	
TR4	0506-001070	TR-ARRAY	MBT3906DW1T1,NPN,DUAL,150mW,SOT-363,TP,100-300	
TR5	0506-001070	TR-ARRAY	MBT3906DW1T1,NPN,DUAL,150mW,SOT-363,TP,100-300	
TR6	0501-002397	TR-SMALL SIGNAL	MMBT2907AWT1,PNP,150MW,SOT-323,TP,75-	
U1	1203-002400	IC-POWER SUPERVISOR	0Z960,SSOP,20P,154MIL,PLASTIC,-,800MW,-55TO+150C,-,2.5V,TR	
U2	1201-002046	IC-OP AMP	LM324,TSSOP,TP,14P,5x4.4mm,QUAD,-,PLASTIC,5.0V,-,0to+70C,70dB,-,5nA,-90nA,2mV	
ZD1	0403-001411	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	
ZD2	0403-001411	DIODE-ZENER	-,5.49-5.73V,200MW,SOD-323,TP	

7-1-2 MH15NS Others

Loc. No.	Code No.	Description	Specification	Remarks
-	BN90-00605B	ASSY COVER FRONT	MH15NS,BASIC	SNA
C/F+C/R	6003-001003	SCREW-TAPTITE	BH,+,B,M4,L12,ZPC(BLK),SWRCH18	
C/F	BN96-00785A	ASSY COVER P-FRONT	MH15AS/NS,ABS HB,BK07	SNA
CIS	6003-000259	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SWRCH18A	SNA
CIS	6003-000276	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
CIS	BN61-00728A	HOLDER-SUB PCB	1510MP,ABS HB	SNA
CIS	BN63-00870A	FELT	AS17UO,FELT,0.3,10,287	SNA
CIS	BN63-00972A	COVER-FRONT	1510MP,ABS HB	SNA
CIS	BN64-00031A	BADGE-BRAND	RB15AS,AL,T1.4,6.3,40.1,SILIVER,SAMSUNG(G/S)	SNA
CIS	BN64-00210A	KNOB-FUNCTION	1510MP,ABS HB	SNA
CIS	BN67-00106A	LENS LED-IR	1510MP,Acryl	SNA
CIS	BN96-00515A	ASSY SPEAKER P	8ohm,2W,60mm,LEFT	SNA
CIS	BN96-00813A	ASSY BOARD P-FUNCTION	MH15NS,FUNCTION ASSY	SNA
CIS	BN96-00814A	ASSY BOARD P-AV	MH15NS,AV board	SNA
CIS	BN96-00836A	ASSY SPEAKER P	8 ohm,2W,280mm	SNA
-	BN90-00606B	ASSY COVER REAR	MH15NS,BASIC	SNA
C/R	BN96-00786A	ASSY COVER P-REAR	MH15AS/NS,ABS HB,BK07	SNA
CIS	6003-001146	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(WHT),SWRCH18A	SNA
CIS	BN63-00924A	COVER-REAR	1510MP,ABS HB	SNA
CIS	BN70-00176A	BRACKET-VESA	RB15AS,SECC,1	SNA
CIS	BN96-00787A	ASSY STAND P	MH15AS/NS,ABS HB,BK07	SNA
-	BN91-00188A	ASSY LCD-SN	GH15(SN),-,-,	SNA
CIS	BN07-00026A	LCD	LTM150XH-L01,CZB,8BIT,331.6*254.76*12.5,16.19M,-,0.297*0.297,-,-,AMLCD/1 LVDS,-	
CIS	BN81-00013A	A/S PART-LAMP(U)	LTM150XH,LJ91-00250A,-,15XH LAMP(U),-	
CIS	BN81-00013B	A/S PART-LAMP(B)	LTM150XH,LJ91-00251A,-,15XH LAMP(B),-	
-	BN91-00753A	ASSY CHASSIS-SN/CB	MH17NS,BASIC	
CIS	BN96-00792A	ASSY MISC P-SHIELD D SUB	MH15/17AS,SPTE T0.5	SNA
-	BN91-00754B	ASSY SHIELD	MH15NS,BASIC	SNA
C/F+SH/PAN	6003-000283	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SM20C	SNA
CIS	0203-001160	TAPE-FILAMENT	SCOTCH#8915,T0.16,W48,L55M,TRP	SNA
CIS	6502-001070	CABLE CLAMP	DAMC-20,ID9.6,T10.0,NYLIN6/6,NTR	SNA
CIS	BN63-00927A	SHIELD-PANEL	1510MP,SECC,T0.8	SNA
IP/PCB+SH/PCB	6003-000261	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
M/PCB+SH/PCB	6003-000261	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PAN+PAN	6003-000259	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SWRCH18A	SNA
CIS	BN96-00791A	ASSY MISC P-SHIELD PCB	MH15/17AS,SPTE T0.3	SNA
-	BN92-00962B	ASSY LABEL	MH15NS	SNA
LABEL	BN68-00519A	LABEL RATING-00	MH15NS(GH15TS),SS,PE,T0.05,90X45,BLK,POLYESTER,ADC	SNA
-	BN92-00963A	ASSY ACCESSORY	MH17NS	SNA
UNIT/ACCESSORY	BN96-00645S	ASSY ACCESSORY	MH15NS	
CIS	0203-000214	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
CIS	6902-000110	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
CIS	BH39-10339X	CBF POWER CORD	DET,SVT,125V/7A,BLK,1830,WALL(ST),MSP-33,MSC-30	
CIS	BH68-00261F	CARD WARRANTY-03	SyncMaster14-1,ADC,MOJO180G,E/F,USA	SNA
CIS	BH68-00261J	MANUAL-01	SEAREGISTRATION CARD,SEA,E,USA,MOJO120G,-,173,234,-,-,-,-	SNA
CIS	BH68-00261R	MANUAL-00	3 MONTHS CRM CARD,SECA,E/F,CANADA,MOJO120G,173,234	SNA
CIS	BH68-00344C	CARD WARRANTY-00	SECA W'TY & CRM CARD,SECA,MOJO100G,E/F,CANADA	SNA
ACCESSORY	BN39-00061B	CBF SIGNAL-STEREO	MH15NS,1P,UL2851#26,2000mm,PLUG(BLK/GRN),BLACK,STEREO,SJ03-01-418	
ACCESSORY	BN39-00244A	CBF SIGNAL	BU15A0(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	
ACCESSORY	BN59-00367D	REMOCON	TM52,MH15NS,3C1860M9SKB1,29,EX,CARD Remocon	

Loc. No.	Code No.	Description	Specification	Remarks
ACCESSORY	BN96-00832A	ASSY MANUAL P	MH15NS,17NS,SyncMaster,ADC,E/F/S/P,BN59-390A+BH68-376L	SNA
CIS	BH68-00376L	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	
CIS	BN59-00390A	S/W DRIVER-IB	1510MP,1710MP,W/W,SyncMaster,E/F/S/P	SNA
-	BN92-00964B	ASSY P/MATERIAL	MH15NS	SNA
P/M	0203-001100	TAPE-OPP MASKING	OPP/W75/CLR,T0.05,W75,L800000,CLR	SNA
P/M	6902-000379	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
P/M	6902-000521	BAG PE	HDPE/NITRON/HDPE,T0.015/T0.5/T0.015,W600,L600,TRP,28 LANGUAGE,2-	SNA
P/M	BH69-00256A	PAD-PACKING-EDGE	MV540,B400,200,2170,-,-,YEL,-,-	SNA
P/M	BH69-00457C	PACKING-PAD BOTTOM	CY15PO,FOAM,T3.0,1320,880	SNA
P/M	BH69-40379A	PACKING-WRAP	LDPE,W500*T0.02,-,-	SNA
P/M	BN68-00129A	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
P/M	BN69-00139Q	PALLET	L170P(IBM),WOODEN,1000,1320,120	SNA
P/M	BN69-00140C	PAD-PALLET COVER	DV17,SW,1100*3690,1258,-,-,-,-,-	SNA
P/M	BN69-00140Q	PAD-PALLET COVER	FP1701,SW,1000*4000,1350,-,-,-,-,-	SNA
P/M	BN69-00583A	CUSHION	1510MP,EPS M50	SNA
-	BN92-00995N	ASSY BOX	MH15NSSS,ADC,UNITED STATES	SNA
CIS	BH68-00328K	LABEL BAR CODE	SAMTRON,MPRII,ADC,ART-PAPER 90G,-,90,90,LABEL-BARCODE,-,WHT,-,-	SNA
BOX	BH75-10529A	UNIT-HANDLE PACKING	LXA410TLMU,PE,-,WHITE,-	SNA
CIS	BN72-60001A	LEVER-TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
CIS	BN72-60002A	LEVER-BOTTOM	LSD210TL,PE-LD,WHITE,TFT-LCD	SNA
BOX	BN69-00670A	BOX-01	S/M510MP(MH15NS/AS),CB-SW4,YEL,L478*W426*H109,ADC	SNA
-	SX-MH15NSSS	2	SEC,XH-L01(ZPD)	-

7-2-1 MH17NS Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BN94-00502B	ASSY PCB MAIN-EJ ET	MH17NS,BASIC	SNA
C134	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
C139	2409-001043	C-ORGANIC	47UF,20%,6.3V,WT,TP,6.3X6.8,2.5	
CIS	AA40-00042A	TUNER-F/S	TECC1040PG32A(HI),NTSC,181CH,45.75MHZ,75OHM,F-CON,5V,TR,4.75V-5.25V	
CIS1	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS2	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS3	0204-001095	THINNER	#4520,-,-,-	SNA
CIS4	0204-001677	FLUX	DF-201TVS,MIX,0.820,FLUX 13%,G	SNA
CN100	3701-001219	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	
CN101	3711-004712	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	
CN300	3711-005505	CONNECTOR-HEADER	NOWALL,11P,1R,2.54mm,ANGLE,SN,WHT	
CN301	3722-002081	JACK-EAR PHONE	5P/2C,-,SnPb,L-BLU,-	
FT302	2903-000129	FILTER-CERAMIC	BR,4.5MHz,-,-,-,TP,-	
FT303	2904-001241	FILTER-SAW AV	45.75MHz,SIP5K,ST,14.4dB,M/N,-	
IC300_SOC	3704-001061	SOCKET-IC	64P,DIP,SN,1.778mm	
IC302	1204-001854	IC-FILTER	TDA9183,DIP,16P,300MIL,PLASTIC,5.5V,175MW,-25TO+70C,TP,NTSC COMB FILTER	
IC304	1204-001833	IC-VOLUME CONTROL	TDA7496L,DIP,20P,-,PLASTIC,26V,6W,0TO+70C,ST,AMP&VOLUME CONTROL	
L307	2701-000127	INDUCTOR-AXIAL	15uH,10%,2534	
L310	2701-000157	INDUCTOR-AXIAL	220uH,5%,2534	
L311	2701-000157	INDUCTOR-AXIAL	220uH,5%,2534	
L317	2701-000157	INDUCTOR-AXIAL	220uH,5%,2534	
L318	2701-000210	INDUCTOR-AXIAL	680uH,10%,3070	
MP1.0_TUENR	BN41-00398A	PCB SUB-TUNER	MH15AS,FR1,1,1.6,147*166,manet pal,14,tuner	SNA
-	BN97-00341B	ASSY SMD-EM/CM	MH15NS	SNA
BD200	3301-001163	BEAD-SMD	-,80,-,300,TP,-,0.08	
BD201	3301-001163	BEAD-SMD	-,80,-,300,TP,-,0.08	
C100	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C101	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C102	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C106	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C107	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C108	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C109	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C110	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C111	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C112	2203-001607	C-CER,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C113	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C114	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C115	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C119	2203-000552	C-CER,CHIP	0.02NF,5%,50V,C0G,TP,1608	
C120	2203-000552	C-CER,CHIP	0.02NF,5%,50V,C0G,TP,1608	
C121	2203-000552	C-CER,CHIP	0.02NF,5%,50V,C0G,TP,1608	
C122	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C123	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C124	2203-000972	C-CER,CHIP	47nF,10%,16V,X7R,TP,1608	
C125	2203-001607	C-CER,CHIP	0.22nF,5%,50V,NP0,TP,1608	
C126	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C128	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C129	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C130	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C131	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C132	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C133	2402-000209	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	
C135	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C136	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C137	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C138	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C140	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C141	2203-005065	C-CER,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C192	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C197	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	

Loc. No.	Code No.	Description	Specification	Remarks
C200	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C201	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C202	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C203	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C204	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C205	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C206	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C207	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C208	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C209	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C210	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C211	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C212	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C213	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C214	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C215	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C216	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C217	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C218	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C219	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C220	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C221	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C222	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C223	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C224	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C225	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C226	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C227	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C228	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C229	2203-005437	C-CER,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C230	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C231	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C232	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C233	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C234	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C235	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C236	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C237	2203-000998	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	
C238	2203-000998	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	
C239	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C278	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C279	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C300	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C301	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C302	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C303	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C304	2203-001402	C-CER,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C305	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C306	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C307	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C308	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C310	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C311	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C312	2203-000384	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	
C313	2203-000384	C-CER,CHIP	0.015NF,5%,50V,C0G,TP,1608	
C314	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C315	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C316	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C317	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C318	2203-001652	C-CER,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C319	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C320	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	

Loc. No.	Code No.	Description	Specification	Remarks
C321	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C322	2402-000209	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	
C323	2203-000531	C-CER,CHIP	2.7nF,10%,50V,X7R,TP,1608,-	
C324	2203-001402	C-CER,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C325	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1608,-	
C326	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C327	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C328	2203-000041	C-CER,CHIP	0.01NF,0.25PF,50V,C0G,TP,1608	
C329	2203-000041	C-CER,CHIP	0.01NF,0.25PF,50V,C0G,TP,1608	
C330	2203-000041	C-CER,CHIP	0.01NF,0.25PF,50V,C0G,TP,1608	
C331	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C332	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C333	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C334	2402-000108	C-AL,SMD	10uF,20%,16V,WT,TP,4.3x4.3x5.4	
C335	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C336	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C337	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C338	2203-000491	C-CER,CHIP	2.2nF,10%,50V,X7R,TP,1608,-	
C339	2203-001222	C-CER,CHIP	820pF,10%,50V,X7R,TP,1608,-	
C340	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	
C341	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C342	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C343	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C344	2203-001402	C-CER,CHIP	220nF,+80-20%,16V,Y5V,TP,1608	
C345	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C346	2203-002398	C-CER,CHIP	22nF,10%,50V,X7R,TP,1608	
C347	2203-000405	C-CER,CHIP	0.18NF,5%,50V,C0G,TP,1608	
C348	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	
C349	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C350	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C351	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C352	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C353	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C357	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C358	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C359	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C360	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C361	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C362	2402-001070	C-AL,SMD	470uF,20%,16V,GP,TP,10x10.2,-	
C363	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C364	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C365	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C366	2402-001070	C-AL,SMD	470uF,20%,16V,GP,TP,10x10.2,-	
C367	2402-000170	C-AL,SMD	1uF,20%,50V,GP,TP,4.3x4.3x5.4,	
C368	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C369	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C370	2203-000888	C-CER,CHIP	4.7nF,10%,50V,X7R,TP,1608	
C371	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C372	2203-000815	C-CER,CHIP	0.033NF,5%,50V,C0G,TP,1608	
C373	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C374	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C375	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C376	2402-001070	C-AL,SMD	470uF,20%,16V,GP,TP,10x10.2,-	
C377	2203-000783	C-CER,CHIP	0.33NF,5%,50V,C0G,TP,1608	
C378	2203-000783	C-CER,CHIP	0.33NF,5%,50V,C0G,TP,1608	
C379	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C380	2402-000209	C-AL,SMD	22uF,20%,16V,WT,TP,5.3x5.3mm,1	
C381	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C382	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
C383	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C384	2402-000173	C-AL,SMD	4.7uF,20%,35V,GP,TP,4.3x4.3x5.	
C386	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C394	2203-001656	C-CER,CHIP	0.47nF,5%,50V,NP0,TP,1608	
C395	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C396	2203-000626	C-CER,CHIP	0.022NF,5%,50V,C0G,TP,1608	
C397	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C398	2203-000280	C-CER,CHIP	0.01NF,0.5PF,50V,C0G,TP,1608	
C399	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C400	2203-000440	C-CER,CHIP	1nF,10%,50V,X7R,TP,1608,-	
C401	2203-000257	C-CER,CHIP	10nF,10%,50V,X7R,TP,1608	
C402	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C403	2203-000998	C-CER,CHIP	0.047NF,5%,50V,C0G,TP,1608	
C411	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C413	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C415	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C417	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C451	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C452	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C454	2203-005005	C-CER,CHIP	100nF,10%,16V,X7R,TP,1608	
C455	2203-001630	C-CER,CHIP	330nF,+80-20%,16V,Y5V,TP,1608	
C456	2203-000189	C-CER,CHIP	100nF,+80-20%,25V,Y5V,TP,1608,	
CIS5	0202-001162	SOLDER-CREAM	RMA-20-21L,S63,-,SN63/PB36.6/AG0.4,FLUX9.5%	SNA
CN200	3711-005470	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR	
CN201	3711-005471	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,Sn+Pb,IVR	
CN302	3711-005471	CONNECTOR-HEADER	BOX,12P,1R,1.25mm,SMD-A,Sn+Pb,IVR	
D100	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D101	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D102	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D103	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D104	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D105	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D106	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D107	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D108	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D109	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D200	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
D201	0403-001435	DIODE-ZENER	QZX363C5V6,5.32-5.88,200MW,SOT-363,TP	
D300	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D301	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D302	0401-001099	DIODE-SWITCHING	1N4148WS,75V,150mA,SOD-323,TP	
D303	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D304	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D306	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D307	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D308	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D309	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D310	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D311	0403-001052	DIODE-ZENER	RD8.2MB,8.2V,7.7-8.64V,200mW,S	
D312	0403-001382	DIODE-ZENER	UDZ33B,32.15-33.79V,200mW,SOD-323,TP	
D320	0402-000553	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	
D321	0402-000553	DIODE-RECTIFIER	SS24,40V,2.0A,DO-214AA	
FT100	3301-001145	BEAD-SMD	4.5x1.6x1.6mm,-,-	SNA
FT301	3301-001145	BEAD-SMD	4.5x1.6x1.6mm,-,-	SNA
IC100	0803-000117	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	
IC102	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC103	1203-002853	IC-VOLTAGE REGULATOR	G960T45R,TO-252,3P,6.35X5.97MM,PLASTIC,3.234/3.336V,-40TO+125C,1A,-,TP	
IC104	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC107	1203-002450	IC-VOLTAGE REGULATOR	MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-40TO+125C,300MA,-,TP	
IC200	1103-001023	IC-EEPROM	524C80D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP	
IC202	1003-001627	IC-LCD CONTROLLER	MST9141,QFP,128P,20x14mm,-,-,TR,PLASTIC,3.300000V,-20to+85C,-,-,-	
IC301	1001-000191	IC-VIDEO SWITCH	NJM2248M,CMOS,SOP,8P,-,SINGLE,	
IC303	0801-002404	IC-CMOS LOGIC	74VHC4066,ANALOG SWITCH,SOP,14	
IC307	0801-002404	IC-CMOS LOGIC	74VHC4066,ANALOG SWITCH,SOP,14	
IC400	1203-001816	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	

Loc. No.	Code No.	Description	Specification	Remarks
IC401	1203-001816	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	
IC410	1203-001488	IC-POSI.FIXED REG.	7805,TO-252,3P,-,PLASTIC,4.8/5	
IC411	1203-001816	IC-POSI.FIXED REG.	78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP	
L201	2703-001334	INDUCTOR-SMD	1.5uH,10%,2012	
L301	2703-000125	INDUCTOR-SMD	10uH,10%,2012	
L302	2703-000125	INDUCTOR-SMD	10uH,10%,2012	
L303	2703-000398	INDUCTOR-SMD	10uH,10%,3225	
L306	2703-000398	INDUCTOR-SMD	10uH,10%,3225	
L312	2703-000125	INDUCTOR-SMD	10uH,10%,2012	
MP1.1	BN41-00356B	PCB MAIN	MH17NS,FR4,2,1.6,150*166,manet,main	SNA
Q101	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q102	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q103	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q104	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q105	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q201	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q210	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q300	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q301	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q302	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q303	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q304	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q305	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q306	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q307	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q308	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
R100	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R101	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R102	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R103	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R104	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R105	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R106	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R107	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R108	2007-000402	R-CHIP	150ohm,5%,1/10W,TP,1608	
R109	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R110	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R111	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R112	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R113	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R114	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R118	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R119	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R120	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R121	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R122	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R123	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R124	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R125	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R126	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R127	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R128	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R129	2007-001164	R-CHIP	75ohm,1%,1/10W,TP,1608	
R130	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R131	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R135	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R136	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R137	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R138	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R142	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R143	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R144	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R145	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R146	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R147	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R148	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R149	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R150	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R151	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R152	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R153	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R154	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R155	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R156	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R200	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R202	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R203	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R204	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R205	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R206	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R207	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R208	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R209	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R210	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R211	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R212	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R213	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R214	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R215	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R216	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R217	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R218	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R219	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R220	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R221	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R222	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R223	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R224	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R225	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R226	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R227	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R228	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	
R229	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	
R230	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R231	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R232	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R233	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R234	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R235	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R236	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R237	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R238	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R239	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R240	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R241	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R242	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R243	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R244	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R245	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R246	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R247	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R248	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R249	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R250	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R251	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R252	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R256	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	
R267	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R268	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R271	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R300	2007-000091	R-CHIP	12Kohm,5%,1/10W,TP,1608	
R301	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R302	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R303	2007-000124	R-CHIP	2.2Kohm,5%,1/10W,TP,1608	
R304	2007-000132	R-CHIP	180Kohm,5%,1/10W,TP,1608	
R305	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R306	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R307	2007-000100	R-CHIP	68Kohm,5%,1/10W,TP,1608	
R308	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R309	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R310	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R311	2007-000643	R-CHIP	270ohm,5%,1/10W,TP,1608	
R312	2007-000643	R-CHIP	270ohm,5%,1/10W,TP,1608	
R314	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R315	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R316	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R317	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R318	2007-000116	R-CHIP	120ohm,5%,1/10W,TP,1608	
R319	2007-000726	R-CHIP	300ohm,1%,1/10W,TP,1608	
R320	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R321	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R322	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R323	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R325	2007-000118	R-CHIP	390ohm,5%,1/10W,TP,1608	
R326	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R327	2007-000539	R-CHIP	200ohm,5%,1/10W,TP,1608	
R328	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R329	2007-000088	R-CHIP	7.5Kohm,5%,1/10W,TP,1608	
R331	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R332	2007-000726	R-CHIP	300ohm,1%,1/10W,TP,1608	
R333	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R334	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R335	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R336	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R337	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R338	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R339	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	
R340	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R341	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R342	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R343	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R345	2007-000726	R-CHIP	300ohm,1%,1/10W,TP,1608	
R346	2007-000081	R-CHIP	2.7Kohm,5%,1/10W,TP,1608	
R347	2007-000458	R-CHIP	18Kohm,5%,1/10W,TP,1608	
R348	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	
R349	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R350	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R351	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R352	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R353	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R354	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R355	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R356	2007-000120	R-CHIP	680ohm,5%,1/10W,TP,1608	
R357	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R358	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R359	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R360	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R361	2007-000132	R-CHIP	180Kohm,5%,1/10W,TP,1608	
R362	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R363	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R364	2007-000130	R-CHIP	39Kohm,5%,1/10W,TP,1608	
R365	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R366	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R367	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R368	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R369	2007-000119	R-CHIP	560ohm,5%,1/10W,TP,1608	
R370	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R371	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R372	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R373	2007-000091	R-CHIP	12Kohm,5%,1/10W,TP,1608	
R374	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R375	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R376	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R377	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R378	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R379	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R380	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R381	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R382	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R383	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R384	2007-000882	R-CHIP	4.7ohm,5%,1/10W,TP,1608	
R385	2007-000882	R-CHIP	4.7ohm,5%,1/10W,TP,1608	
R386	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R387	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R388	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R389	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R390	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R391	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R392	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R393	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R394	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R396	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R397	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R399	2007-000094	R-CHIP	22Kohm,5%,1/10W,TP,1608	
R400	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R401	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R402	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R403	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R404	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R405	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R409	2007-000097	R-CHIP	47Kohm,5%,1/10W,TP,1608	
R450	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R451	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	
R452	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	
R453	2007-000312	R-CHIP	10ohm,5%,1/4W,TP,3216	
X200	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	
X201	2801-003667	CRYSTAL-SMD	14.3182MHZ,50PPM,28-AAN,16,50OHM,TP	
X300	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,50OHM,TP	
MICOM	BN97-00335M	ASSY MICOM	MH17NS,BASIC	SNA
IC201	0903-001326	IC-MICROCONTROLLER	NT68F632L,8BIT,PLCC,44P,16.59X16.59MM,24MHZ,ST,CMOS,PLASTIC,3.3V,-0TO+70C,128K	
CIS	BN82-00104T	A/S MICOM	MH17NS	SNA

7-2-2 MH17NS Others

Loc. No.	Code No.	Description	Specification	Remarks
-	BN90-00605A	ASSY COVER FRONT	MH17NS,BASIC	SNA
C/F+C/R	6003-001003	SCREW-TAPTITE	BH,+,B,M4,L12,ZPC(BLK),SWRCH18	
C/F	BN96-00789A	ASSY COVER P-FRONT	MH17AS/NS,ABS HB,BK07	SNA
C/F	6003-000259	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SWRCH18A	SNA
C/F	6003-000276	SCREW-TAPTITE	BH,+,B,M3,L10,ZPC(YEL),SWCH10	SNA
C/F	BN61-00737A	HOLDER-SUB PCB	1710MP,ABS HB	SNA
CIS	BN63-00870A	FELT	AS17UO,FELT,0.3,10,287	SNA
C/F	BN63-00976A	COVER-FRONT	1710MP,ABS HB	SNA
C/F	BN64-00031A	BADGE-BRAND	RB15AS,AL,T1.4,6.3,40.1,SILIVER,SAMSUNG(G/S)	SNA
C/F	BN64-00210A	KNOB-FUNCTION	1510MP,ABS HB	SNA
C/F	BN67-00106A	LENS LED-IR	1510MP,Acryl	SNA
C/F	BN96-00515A	ASSY SPEAKER P	8ohm,2W,60mm,LEFT	SNA
C/F	BN96-00813A	ASSY BOARD P-FUNCTION	MH15NS,FUNCTION ASSY	SNA
C/F	BN96-00814A	ASSY BOARD P-AV	MH15NS,AV board	SNA
C/F	BN96-00815A	ASSY SPEAKER P	8 ohm,2 W,330 mm	SNA
-	BN90-00606A	ASSY COVER REAR	MH17NS,BASIC	SNA
C/R	BN96-00790A	ASSY COVER P-REAR	MH17AS/NS,ABS HB,BK07	SNA
CIS	6003-001146	SCREW-TAPTITE	BH,+,S,M4,L10,ZPC(WHT),SWRCH18A	SNA
CIS	BN63-00977A	COVER-REAR	1710MP,ABS HB	SNA
CIS	BN70-00176A	BRACKET-VESA	RB15AS,SECC,1	SNA
CIS	BN96-00788A	ASSY STAND P	MH17AS/NS,ABS HB,BK07	SNA
-	BN91-00388F	ASSY LCD-EJ	GH17AS	SNA
CIS	BN07-00071A	LCD	LTM170EU-L01,GH17LS,1280*1024,17,16.19M,56,0.264*0.264,0~55,5.0,TN,-	
-	BN91-00753B	ASSY CHASSIS-EJ ET	MH17NS,BASIC	
CIS	BN44-00110A	ADAPTOR-INVERTER	FSP048-2PI02,17MFM,110V/230VAC,50/60HZ,+13V/+5V/,2.5A/2.1A,48W,110/220VAC,AC/DC	SNA
CIS	BN96-00792A	ASSY MISC P-SHIELD D SUB	MH15/17AS,SPTE T0.5	SNA
-	BN91-00754A	ASSY SHIELD	MH17NS,BASIC	SNA
C/F+SH/PAN	6003-000259	SCREW-TAPTITE	BH,+,B,M3,L8,ZPC(YEL),SWRCH18A	SNA
CIS	0203-001160	TAPE-FILAMENT	SCOTCH#8915,T0.16,W48,L55M,TRP	SNA
CIS	6502-001070	CABLE CLAMP	DAMC-20,ID9.6,T10.0,NYLIN6/6,NTR	SNA
CIS	BN63-00981A	SHIELD-PANEL	1710MP,SECC,T1.0	SNA
IP/PCB+SH/PCB	6003-000261	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
M/PCB+SH/PCB	6003-000261	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PAN+PAN	6003-000269	SCREW-TAPTITE	BH,+,S,M3,L6,ZPC(YEL),SWRCH18A	SNA
CIS	BN96-00791A	ASSY MISC P-SHIELD PCB	MH15/17AS,SPTE T0.3	SNA
-	BN92-00962A	ASSY LABEL	MH17NS	SNA
LABEL	BN68-00520A	LABEL RATING-00	MH17NS(GH17TS),SS,PE,T0.05,90X45,BLK,POLYESTER,ADC	SNA
-	BN92-00963A	ASSY ACCESSORY	MH17NS	SNA
UNIT/ACCESSORY	BN96-00645S	ASSY ACCESSORY	MH15NS	
CIS	0203-000214	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
CIS	6902-000110	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
CIS	BH39-10339X	CBF POWER CORD	DET,SVT,125V/7A,BLK,1830,WALL(ST),MSP-33,MSC-30	
CIS	BH68-00261F	CARD WARRANTY-03	SyncMaster14-1,ADC,MOJO180G,E/F,USA	SNA
CIS	BH68-00261J	MANUAL-01	SEAREGISTRATION CARD,SEA,E,USA,MOJO120G,-,173,234,-,-,-,-	SNA
CIS	BH68-00261R	MANUAL-00	3 MONTHS CRM CARD,SECA,E/F,CANADA,MOJO120G,173,234	SNA
CIS	BH68-00344C	CARD WARRANTY-00	SECA W'TY & CRM CARD,SECA,MOJO100G,E/F,CANADA	SNA

Loc. No.	Code No.	Description	Specification	Remarks
ACCESSORY	BN39-00061B	CBF SIGNAL-STEREO	MH15NS,1P,UL2851#26,2000mm,PLUG(BLK/GRN),BLACK,STEREO,SJ03-01-418	
ACCESSORY	BN39-00244A	CBF SIGNAL	BU15AQ(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE ,DET. TYPE	
ACCESSORY	BN59-00367D	REMOCON	TM52,MH15NS,3C1860M9SKB1,29,EX,CARD Remocon	
ACCESSORY	BN96-00832A	ASSY MANUAL P	MH15NS,17NS,SyncMaster,ADC,E/F/S/P,BN59-390A+BH68-376L	SNA
CIS	BH68-00376L	MANUAL-01	LCDQUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/I..13LANGS,W/W,MOJO100G,298,420	
CIS	BN59-00390A	S/W DRIVER-IB	1510MP,1710MP,W/W,SyncMaster,E/F/S/P	SNA
-	BN92-00964A	ASSY P/MATERIAL	MH17NS	SNA
P/M	0203-001100	TAPE-OPP MASKING	OPP/W75/CLR,T0.05,W75,L800000,CLR	SNA
P/M	6902-000379	BAG AIR	HDPE,T0.2,L1800,W1000,TRP,,,PAPER	SNA
P/M	6902-000522	BAG PE	HDPE/NITRON/HDPE,T0.015/T0.5/T0.015,W700,L800,TRP,28 LANGUAGE,2-	SNA
P/M	6902-000564	BAG PE	HDPE+NITRON(DOUBLE),T0.015+T0.5(DOUBLE),W300,L180,TRP,8,2	SNA
P/M	BH69-00256A	PAD-PACKING-EDGE	MV540,B400,200,2170,-,-,YEL,-,-	SNA
P/M	BH69-00457B	PACKING-PAD BOTTOM	GH15,FOAM,T3.0,930,1000	SNA
P/M	BH69-40379A	PACKING-WRAP	LDPE,W500*T0.02,-,-	SNA
P/M	BN68-00129A	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
P/M	BN69-00131S	PALLET	VR17KO,WOODEN,1120,960,120	SNA
P/M	BN69-00140C	PAD-PALLET COVER	DV17,SW,1100*3690,1258,-,-,-,-,-	SNA
P/M	BN69-00140T	PAD-PALLET COVER	SUN(LSA810),SW,900,3760,-,-,-,-,-	SNA
P/M	BN69-00584A	CUSHION	1710MP,EPS M50	SNA
-	BN92-00995P	ASSY BOX	MH17NSSS,ADC,UNITED STATES	SNA
CIS	BH68-00328K	LABEL BAR CODE	SAMTRON,MPRII,ADC,ART-PAPER 90G,-,90,90,LABEL-BARCODE,-,WHT,-,-	SNA
BOX	BH75-10529C	UNIT-HANDLE/PACKING	S/M170MP,PE-LD,PE-HD,-,WHITE,-	
CIS	BN72-60001A	LEVER-TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
CIS	BN72-60002C	LEVER-BOTTOM	S/M170MP,PE-HD,BLUE	SNA
BOX	BN69-00671A	BOX-01	S/M710MP(MH17NS/AS),CB-SW4,WHT OFFSET,L530*W470*H124,ADC	SNA
-	ET-MH17NSSS	2	LTM170EU-L01(ZPD)	-

Memo

8 Block Diagram

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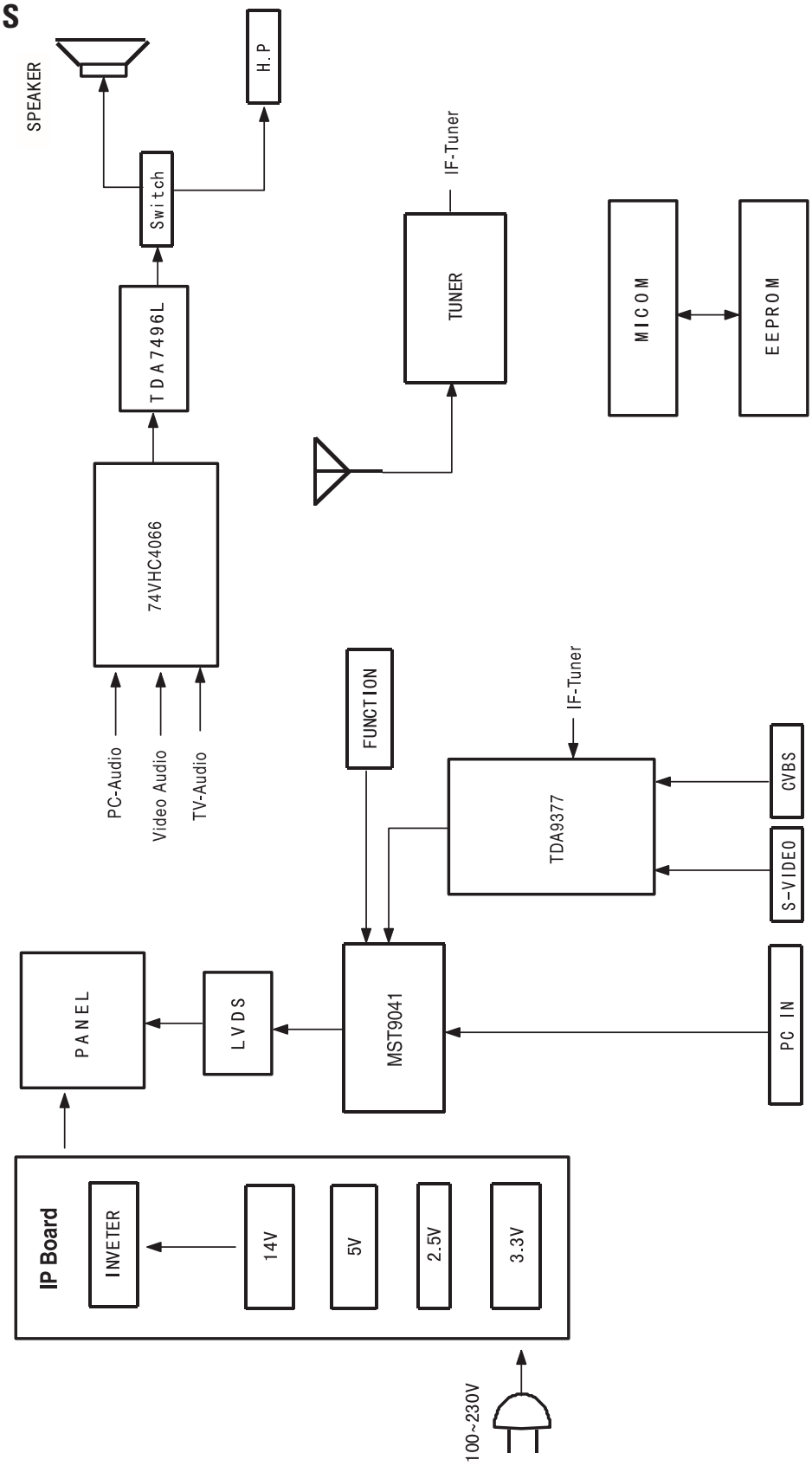
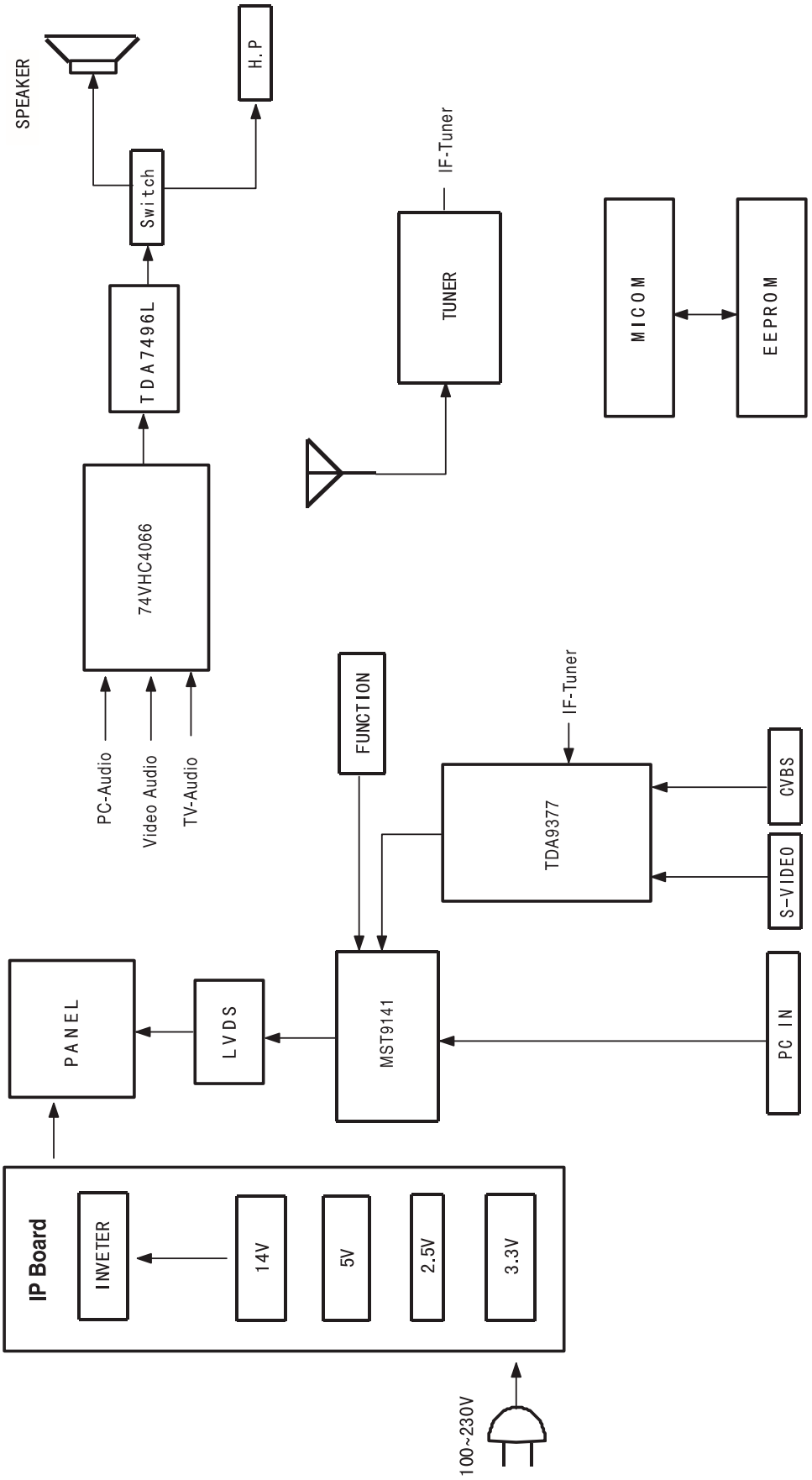
8-1 MH15NS



8-2 MH17NS


SPEAKER
H.P
Switch
TDA7496L
74VHC4066
PC-Audio
Video Audio
TV-Audio
IF-Tuner
TUNER
MICOM
EEPROM
FUNCTION
IF-Tuner
TDA9377
CVBS
S-VIDEO
PANEL
LVDS
MST9141
PC IN
IP Board
INVETER
14V
5V
2.5V
3.3V
100~230V

9 Wiring Diagram

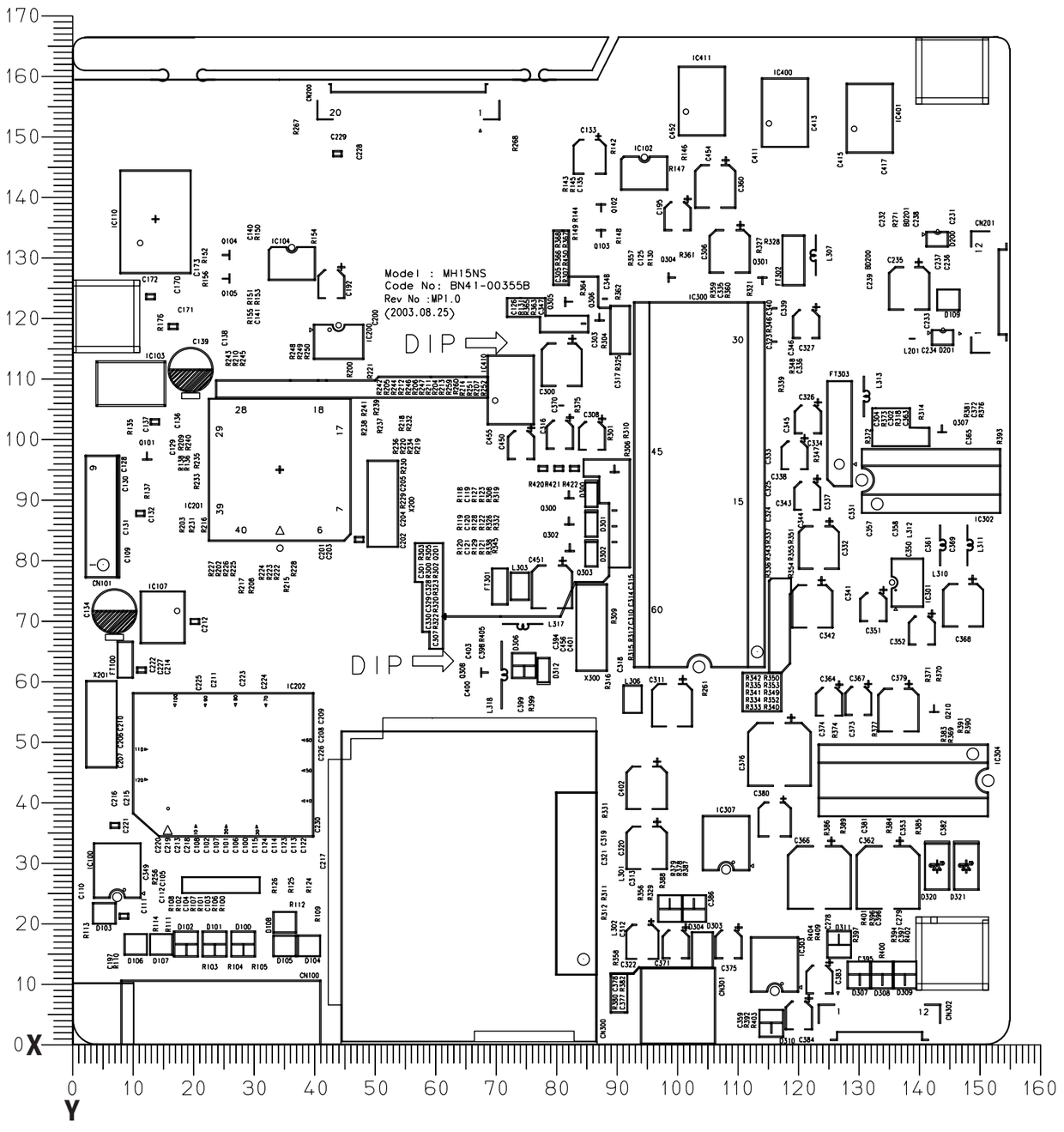
9-1 MH15NS

9-2 MH17NS

CN200
1 5V
2 5V
3 5V
4 NC
5 NC
6 NC
7 GND
8 T3+
9 T3-
10 TXCL+
11 TXCL-
12 T2+
13 T2-
14 GND
15 T1+
16 T1-
17 GND
18 T0+
19 T0-
20 TA3+
21 TA3-
22 TAXCL+
23 TAXCL-
24 GND
25 TA2+
26 TA2-
27 TA1+
28 TA1-
29 TA0+
30 TA0-
CN101
1 +14V_IN
2 +14V_IN
3 GND
4 GND
5 GND
6 +5V_IN
7 +5V_IN
8 ADJ_BL
9 BL_EN
MAIN BOARD
CN100
1 RED
2 GREEN
3 BLUE
4 GND
5 GND
6 RGB_GND
7 RGB_GND
8 RGB_GND
9 NC
10 CHK_DSUB
11 GND
12 DDC_DATA
13 H_SYNC
14 V_SYNC
15 DDC_CLOCK
CN301
1 GND
2 PC_L
3 PC_L
4 PC_R
5 PC_R
CN302
1 VIDEO_AL
2 VIDEO_AR
3 A_GND
4 A_GND
5 CIN
6 YIN
7 GND
8 CVBS
9 GND
10 OUTL
11 OUTR
12 GND
CN201
1 GND
2 Remocon
3 LED
4 GND
5 GND
6 +3.3V_IN
7 GND
8 GND
9 KEY 1
10 KEY 2
11 KEY 3
12 GND

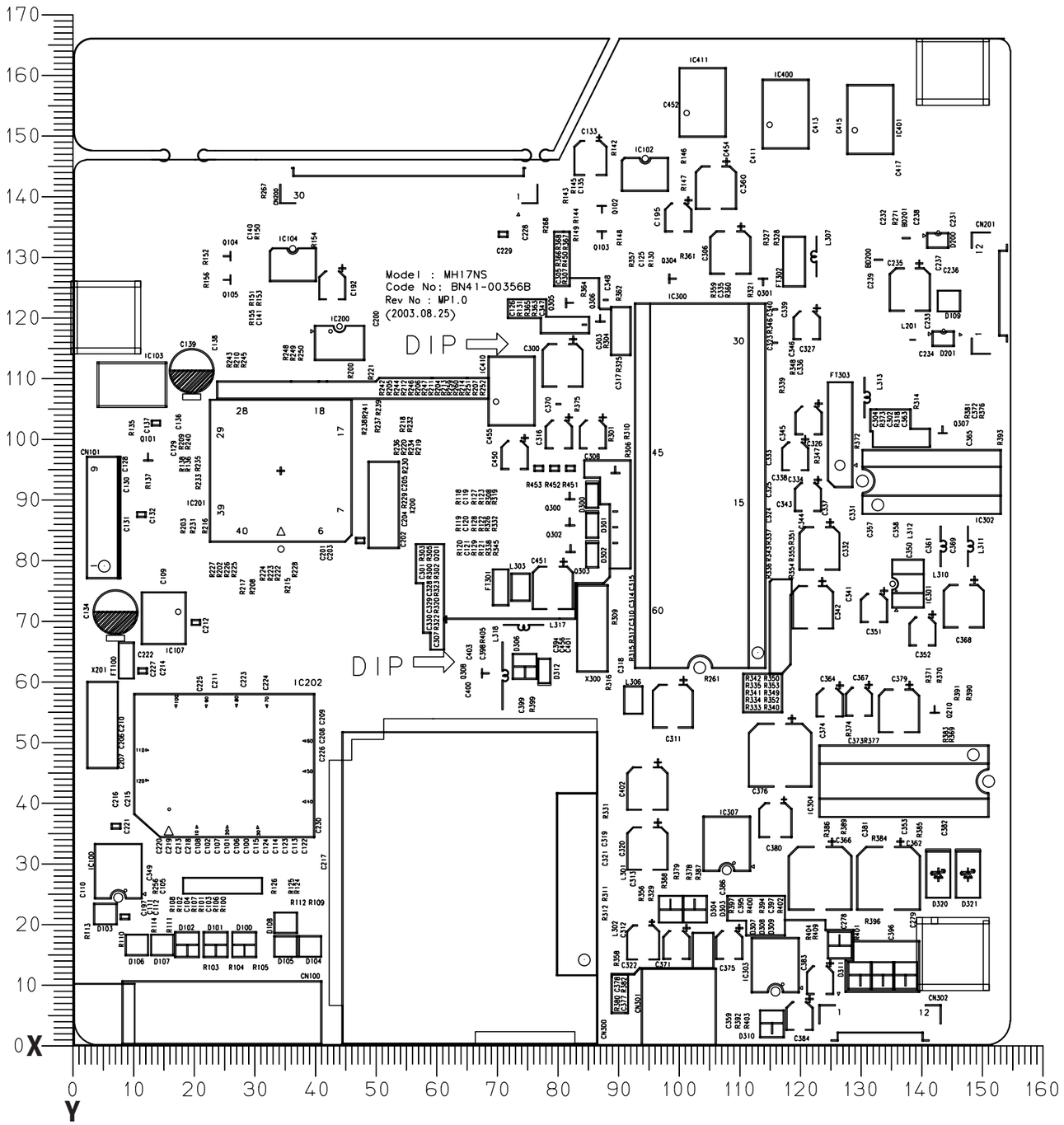
10 PCB Layout

10-1 MH15NS Main PCB Layout



Loc. No.	Description	X	Y
	DIODE		
D100	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	28.1	16.5
D101	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	23.4	16.5
D102	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	18.7	16.5
D103	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	5.1	21.6
D104	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	39.0	16.3
D105	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	35.0	16.3
D106	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	10.4	16.5
D107	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	14.6	16.5
D108	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	35.0	20.2
D109	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	144.4	122.7
D200	DIODE-ZENERQZX363C5V6,5.32-5.88,200MW,SOT	142.5	132.8
D201	DIODE-ZENERQZX363C5V6,5.32-5.88,200MW,SOT	143.4	116.6
D300	DIODE-SWITCHING1N4148WS,75V,150mA,SOD-323,TP	85.5	90.6
D301	DIODE-SWITCHING1N4148WS,75V,150mA,SOD-323,TP	85.5	85.7
D302	DIODE-SWITCHING1N4148WS,75V,150mA,SOD-323,TP	85.5	80.8
D303	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	102.4	22.3
D304	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	98.4	22.3
D306	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	74.4	62.4
D307	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	129.8	11.6
D308	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	133.5	11.6
D309	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	137.2	11.6
D310	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	115.2	3.6
D311	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	126.3	16.4
D312	DIODE-ZENERUDZ33B,32.15-33.79V,200mW,SOD-323,TP	77.6	61.7
D320	DIODE-RECTIFIERSS24,40V,2.0A,DO-214AA	142.5	29.3
D321	DIODE-RECTIFIERSS24,40V,2.0A,DO-214AA	147.3	29.3
	IC		
IC100	IC-TTL74F14,INVERTER,SOP,14P,150MIL,	7.3	28.7
IC102	FET-SILICONSI9933ADY-T1,P,-20V,3.4A,0.075	94.2	143.7
IC103	IC-VOLTAGE REGULATORG960T45R,TO-252,3P,6.35X5.97MM	9.5	108.9
IC104	FET-SILICONSI9933ADY-T1,P,-20V,3.4A,0.075	36.1	128.8
IC107	IC-VOLTAGE REGULATORMC33375ST-2.5T3,SOT-223,4P,137	14.8	70.4
IC110	IC-POSI.FIXED REG.IRU1030-33CM,TO-263,3P,-,PLAST	13.6	136.0
IC200	IC-EEPROM24C08,1028x8BIT,SOP,8P,150MIL,	43.8	115.8
IC201	IC-MICROCONTROLLERNT68F632L,8BIT,PLCC,44P,16.59X	34.1	94.7
IC202	mst9041, IC-LCD CONTROLLER, MST9041,QFP,128P,20X14MM	25.0	45.9
IC300	IC MICOMTDA9377PS/N2/AI,SPM-456AN2,64P	112.8	64.7
IC300_SOCK	IC-SOCKET, 64Pin	112.8	64.7
IC301	IC-VIDEO SWITCHNJM2248M,CMOS,SOP,8P,-,SINGLE,	137.6	76.1
IC302	IC-FILTERTDA9183,DIP,16P,300MIL,PLASTIC,NTSC COMB FILTER	132.6	89.1
IC303	IC-CMOS LOGIC74VHC4066,ANALOG SWITCH,SOP,14	115.7	13.2
IC304	IC-VOLUME CONTROLTDA7496L,DIP,20P,-,PLASTIC,26V	148.4	47.9
IC307	IC-CMOS LOGIC74VHC4066,ANALOG SWITCH,SOP,14	107.7	33.2
IC400	IC-POSI.FIXED REG.78M08,TO-252,3P,-,PLASTIC,7.7/	117.4	154.0
IC401	IC-POSI.FIXED REG.78M08,TO-252,3P,-,PLASTIC,7.7/	131.4	153.1
IC410	IC-POSI.FIXED REG.7805,TO-252,3P,-,PLASTIC,4.8/5	72.2	108.3
IC411	IC-POSI.FIXED REG.78M08,TO-252,3P,-,PLASTIC,7.7/	103.7	155.9
	TRANSISTOR		
Q101	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	12.2	96.4
Q102	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	87.1	138.4
Q103	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	87.1	134.2
Q104	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	25.8	130.1
Q105	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	25.8	126.2
Q201	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	89.3	94.3
Q210	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	142.0	54.8
Q300	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.8	90.0
Q301	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	113.7	126.4
Q302	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.8	85.7
Q303	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.9	81.3
Q304	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	98.2	126.4
Q305	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.2	122.4
Q306	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	86.8	119.3
Q307	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	143.3	100.9
Q308	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	67.3	61.3

10-2 MH17NS Main PCB Layout



Loc. No.	Description	X	Y
	DIODE		
D100	"DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	28.1	16.5
D101	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	23.4	16.5
D102	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	18.7	16.5
D103	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	5.1	21.6
D104	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	39.0	16.3
D105	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	35.0	16.3
D106	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	10.4	16.5
D107	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	14.6	16.5
D108	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	35.0	20.2
D109	DIODE-ZENERBZX84C5V1,5.1V,5%,200mW,SOT-23	144.4	122.7
D200	DIODE-ZENERQZX363C5V6,5.32-5.88,200MW,SOT	142.5	132.8
D201	DIODE-ZENERQZX363C5V6,5.32-5.88,200MW,SOT	143.4	116.6
D300	DIODE-SWITCHING1N4148WS,75V,150mA,SOD-323,TP	85.5	90.6
D301	DIODE-SWITCHING1N4148WS,75V,150mA,SOD-323,TP	85.5	85.7
D302	DIODE-SWITCHING1N4148WS,75V,150mA,SOD-323,TP	85.5	80.8
D303	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	102.4	22.3
D304	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	98.4	22.3
D306	DIODE-SWITCHINGMMBD4148SE,75V,600mA,SOT-23,TP	74.4	62.4
D307	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	129.8	11.6
D308	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	133.5	11.6
D309	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	137.2	11.6
D310	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	115.2	3.6
D311	DIODE-ZENERRD8.2MB,8.2V,7.7-8.64V,200mW,S	126.3	16.4
D312	DIODE-ZENERUDZ33B,32.15-33.79V,200mW,SOD-323,TP	77.6	61.7
D320	DIODE-RECTIFIERSS24,40V,2.0A,DO-214AA	142.6	28.1
D321	DIODE-RECTIFIERSS24,40V,2.0A,DO-214AA	147.5	28.1
	IC		
IC100	IC-TTL74F14,INVERTER,SOP,14P,150MIL,	7.3	28.7
IC102	FET-SILICONSI9933ADY-T1,P,-20V,3.4A,0.075	94.2	143.7
IC103	IC-VOLTAGE REGULATORG960T45R,TO-252,3P,6.35X5.97MM	9.5	108.9
IC104	FET-SILICONSI9933ADY-T1,P,-20V,3.4A,0.075	36.1	128.8
IC107	IC-VOLTAGE REGULATORMC33375ST-2.5T3,SOT-223,4P,137	14.8	70.4
IC200	IC-EEPROM24C08,1028x8BIT,SOP,8P,150MIL,	43.8	115.8
IC201	IC-MICROCONTROLLERNT68F632L,8BIT,PLCC,44P,16.59X	34.1	94.7
IC202	IC-LCD CONTROLLERMST9141,QFP,128P,20x14mm,	25.0	45.9
IC300	IC MICOMTDA9377PS/N2/AI,SPM-456AN2,64P	112.8	64.7
IC300_SOCK	IC-SOCKET, 64Pin	112.8	64.7
C301	IC-VIDEO SWITCHNJM2248M,CMOS,SOP,8P,-,SINGLE,	137.6	76.1
IC302	IC-FILTERTDA9183,DIP,16P,300MIL,PLASTIC,NTSC COMB FILTER	132.6	89.1
IC303	IC-CMOS LOGIC74VHC4066,ANALOG SWITCH,SOP,14	115.7	13.2
IC304	IC-VOLUME CONTROLTDA7496L,DIP,20P,-,PLASTIC,26V	148.4	47.9
IC307	IC-CMOS LOGIC74VHC4066,ANALOG SWITCH,SOP,14	107.7	33.2
IC400	IC-POSI.FIXED REG.78M08,TO-252,3P,-,PLASTIC,7.7/	117.4	154.0
IC401	IC-POSI.FIXED REG.78M08,TO-252,3P,-,PLASTIC,7.7/	131.4	153.1
IC410	IC-POSI.FIXED REG.7805,TO-252,3P,-,PLASTIC,4.8/5	72.2	108.3
IC411	IC-POSI.FIXED REG.78M08,TO-252,3P,-,PLASTIC,7.7/	103.7	155.9
	TRANSISTOR		
Q101	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	12.2	96.4
Q102	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	87.1	138.4
Q103	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	87.1	134.2
Q104	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	25.8	130.1
Q105	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	25.8	126.2
Q201	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	89.3	94.3
Q210	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	142.0	54.8
Q300	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.8	90.0
Q301	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	113.7	126.4
Q302	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.8	85.7
Q303	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.9	81.3
Q304	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	98.2	126.4
Q305	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	81.2	122.4
Q306	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	86.8	119.3
Q307	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	143.3	100.9
Q308	TR-SMALL SIGNAL2SC2412K,NPN,200mW,SOT-23,TP,1	67.3	61.3

11 Schematic Diagrams

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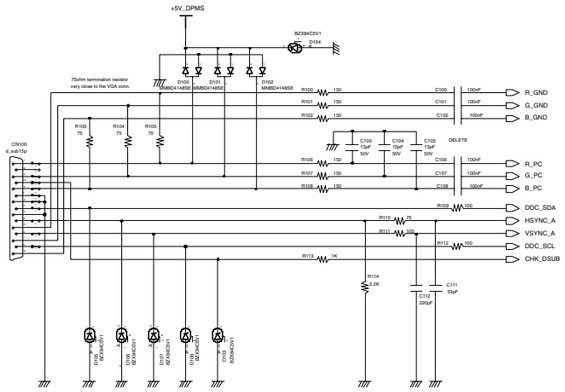
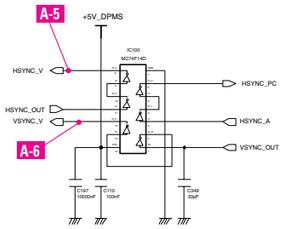
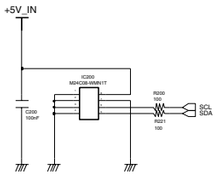
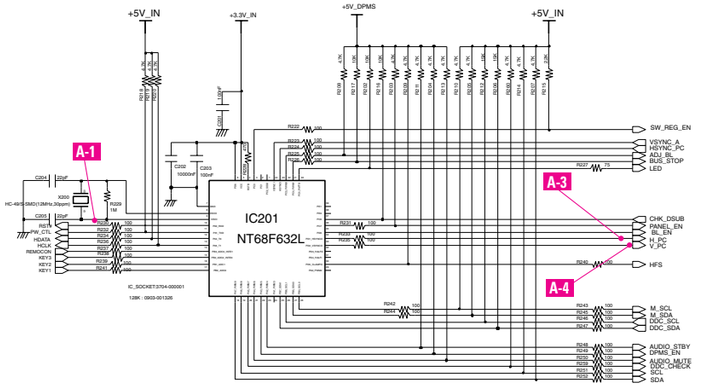
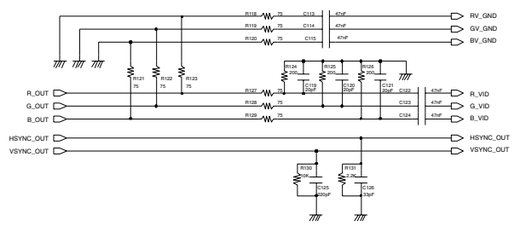
11-1-1 MH15NS Schematic Diagram

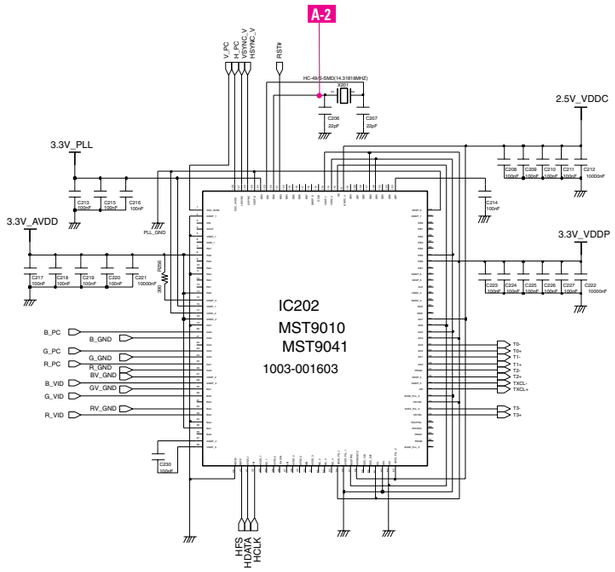


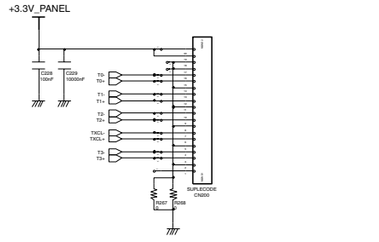


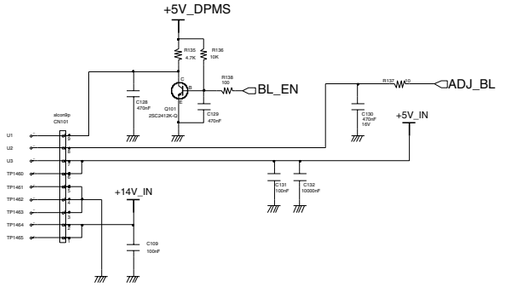


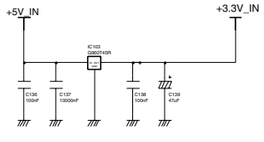


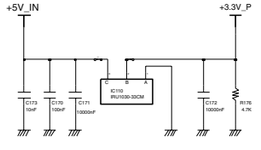


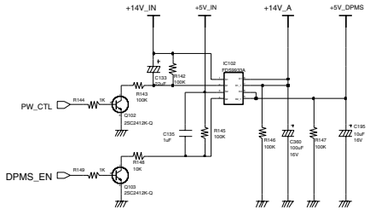


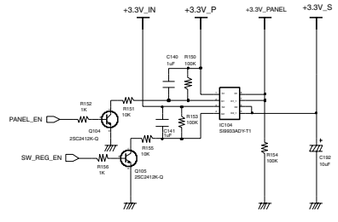


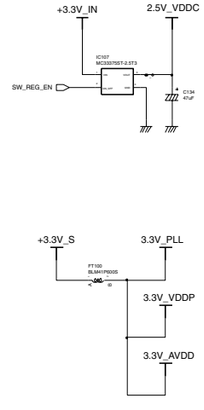


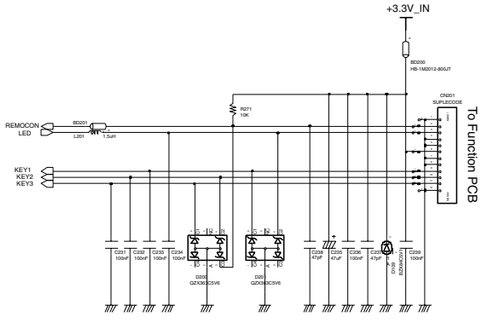


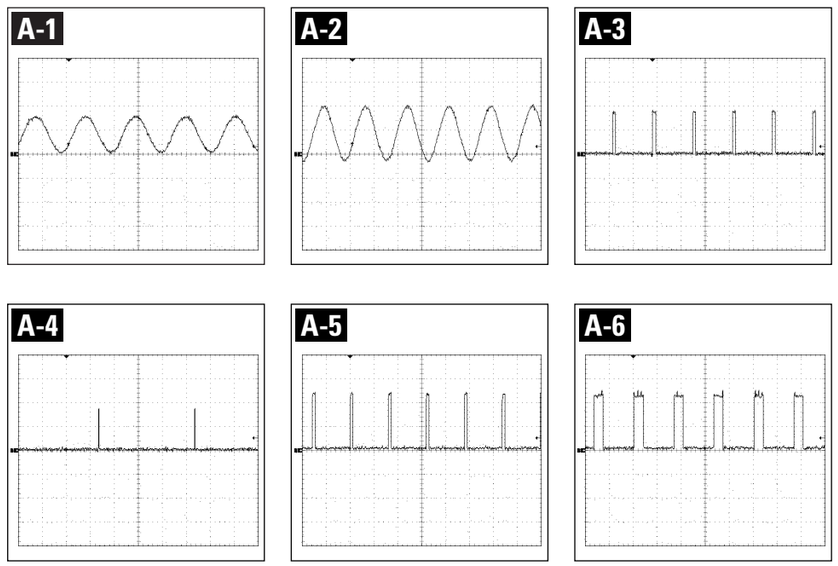








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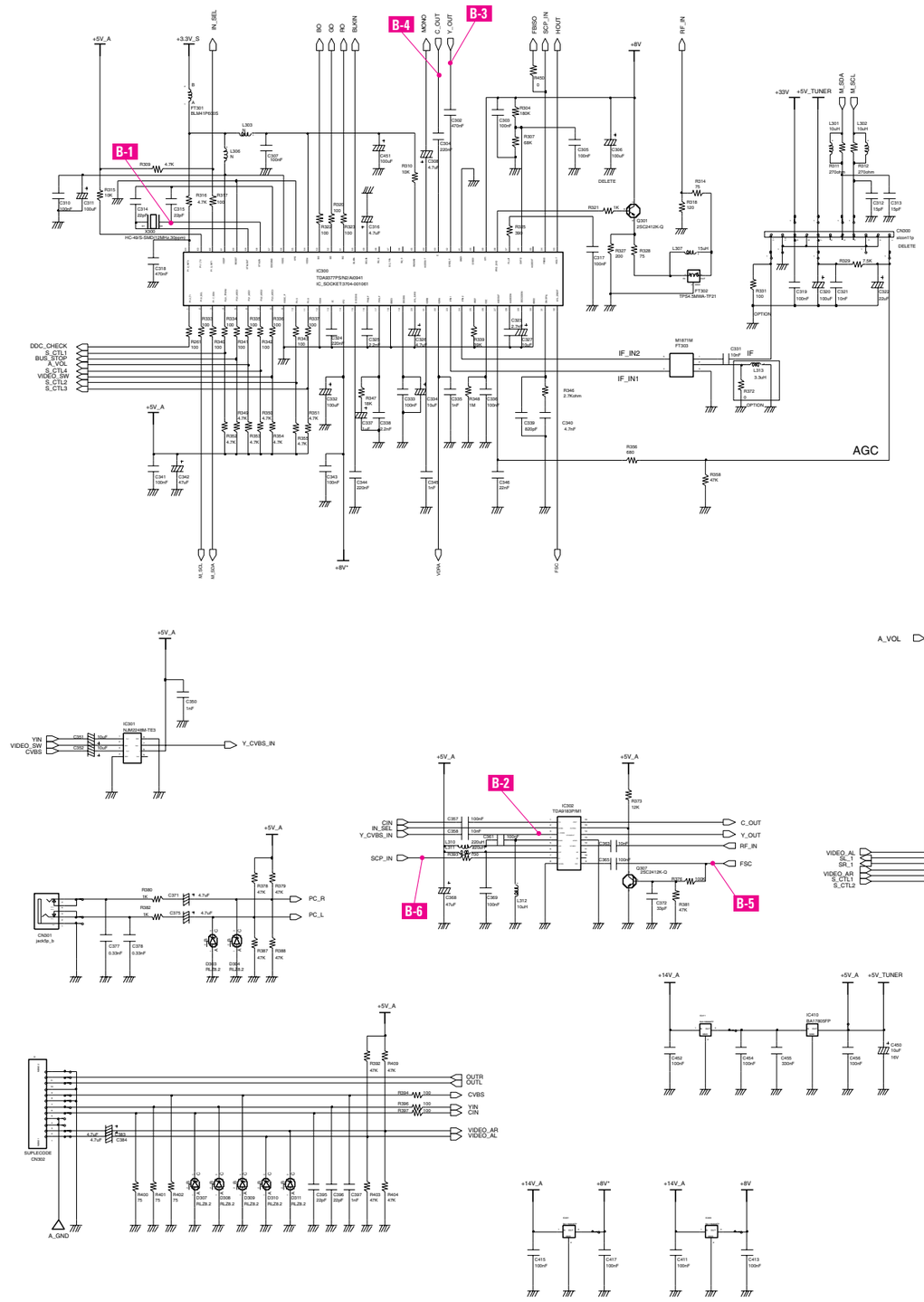
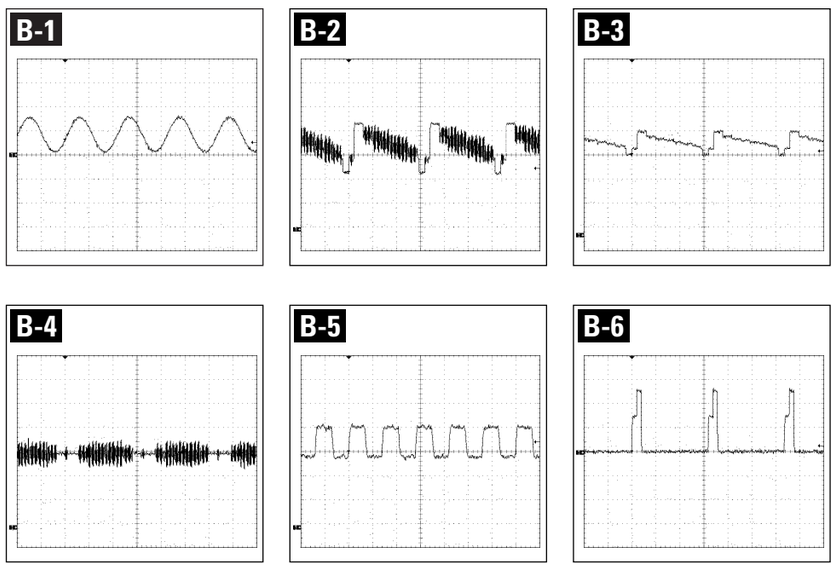
11-1-2 MH15NS Schematic Diagram

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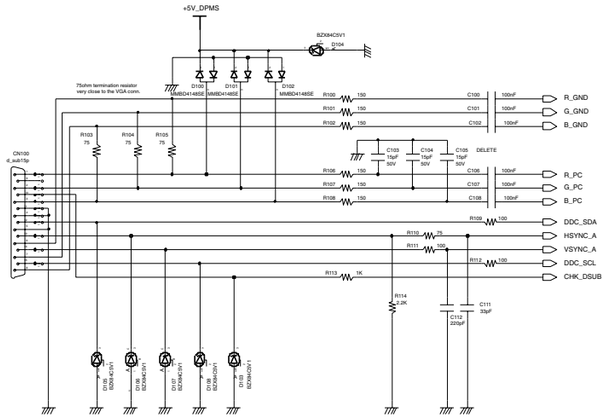
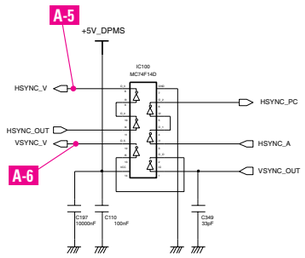
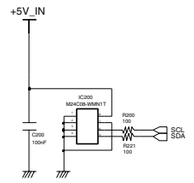
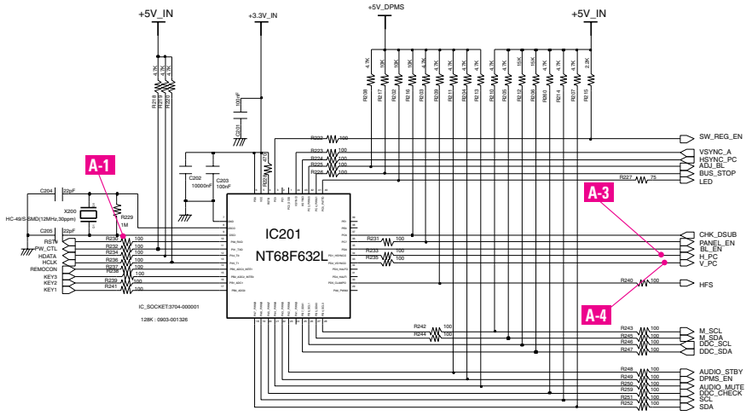
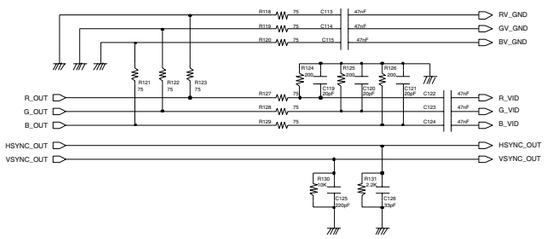
11-2-1 MH17NS Schematic Diagram

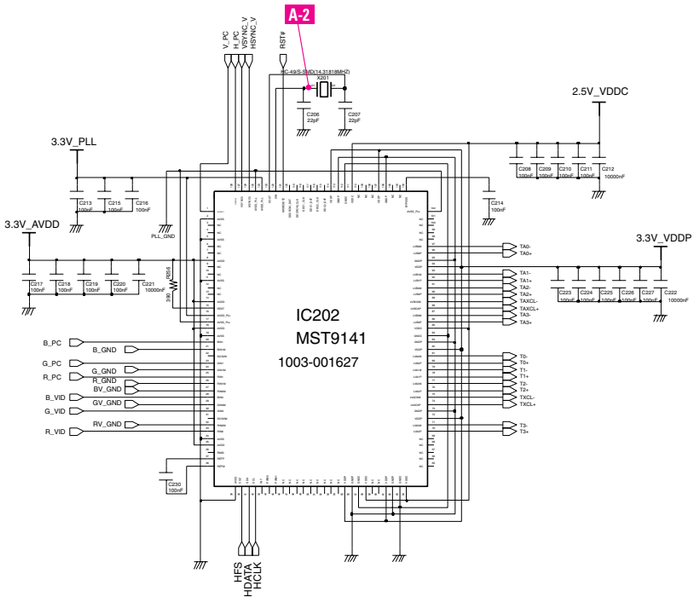


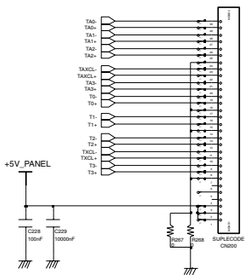


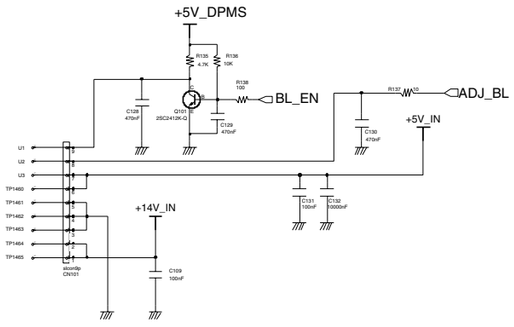


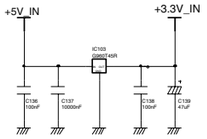


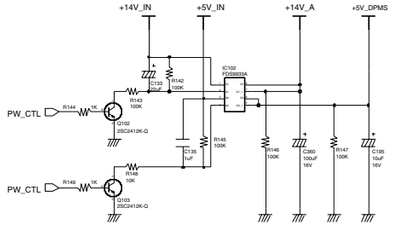


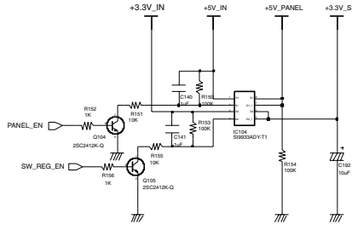


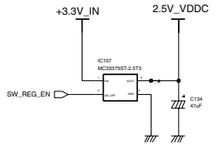


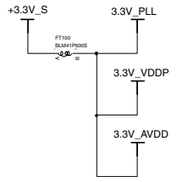


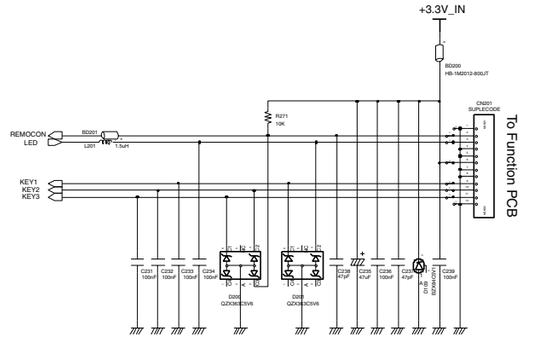


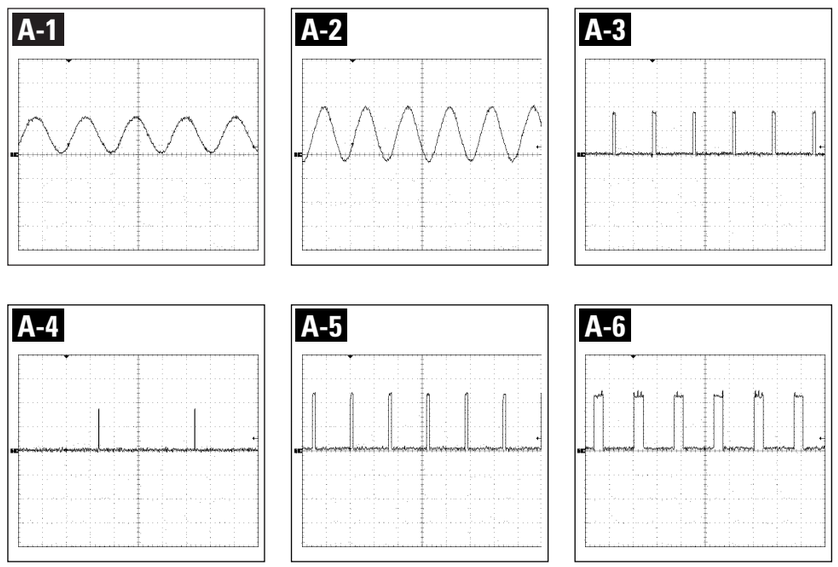








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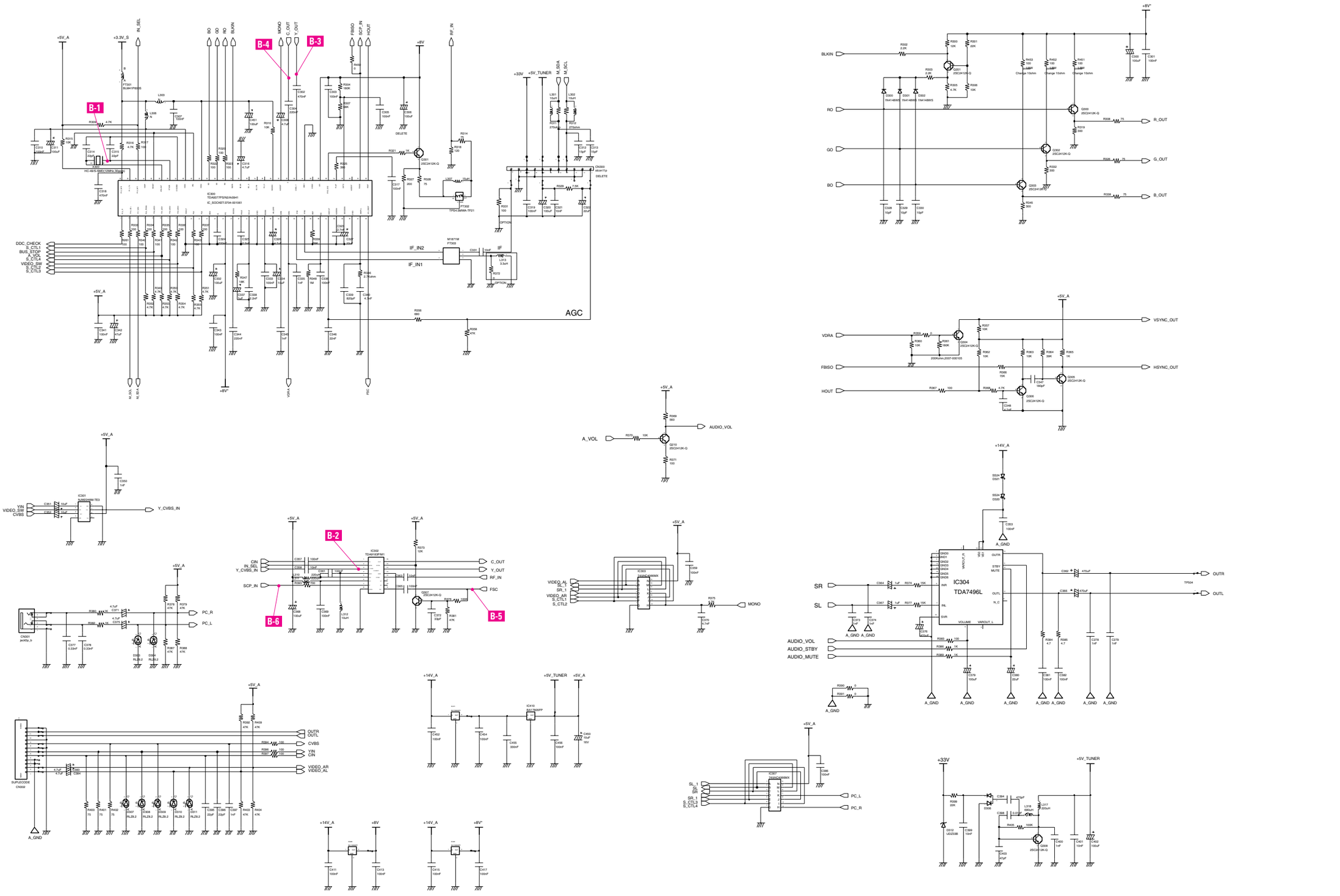
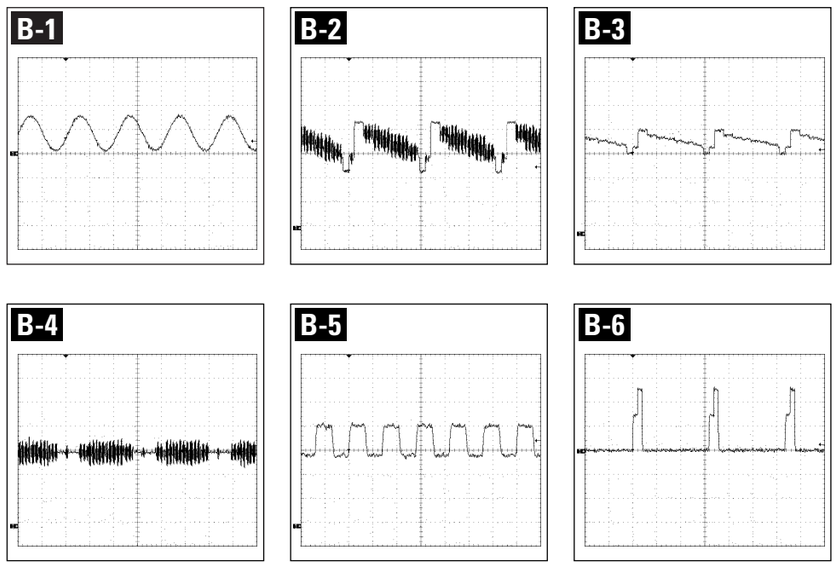
11-2-2 MH17NS Schematic Diagram

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